

INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY

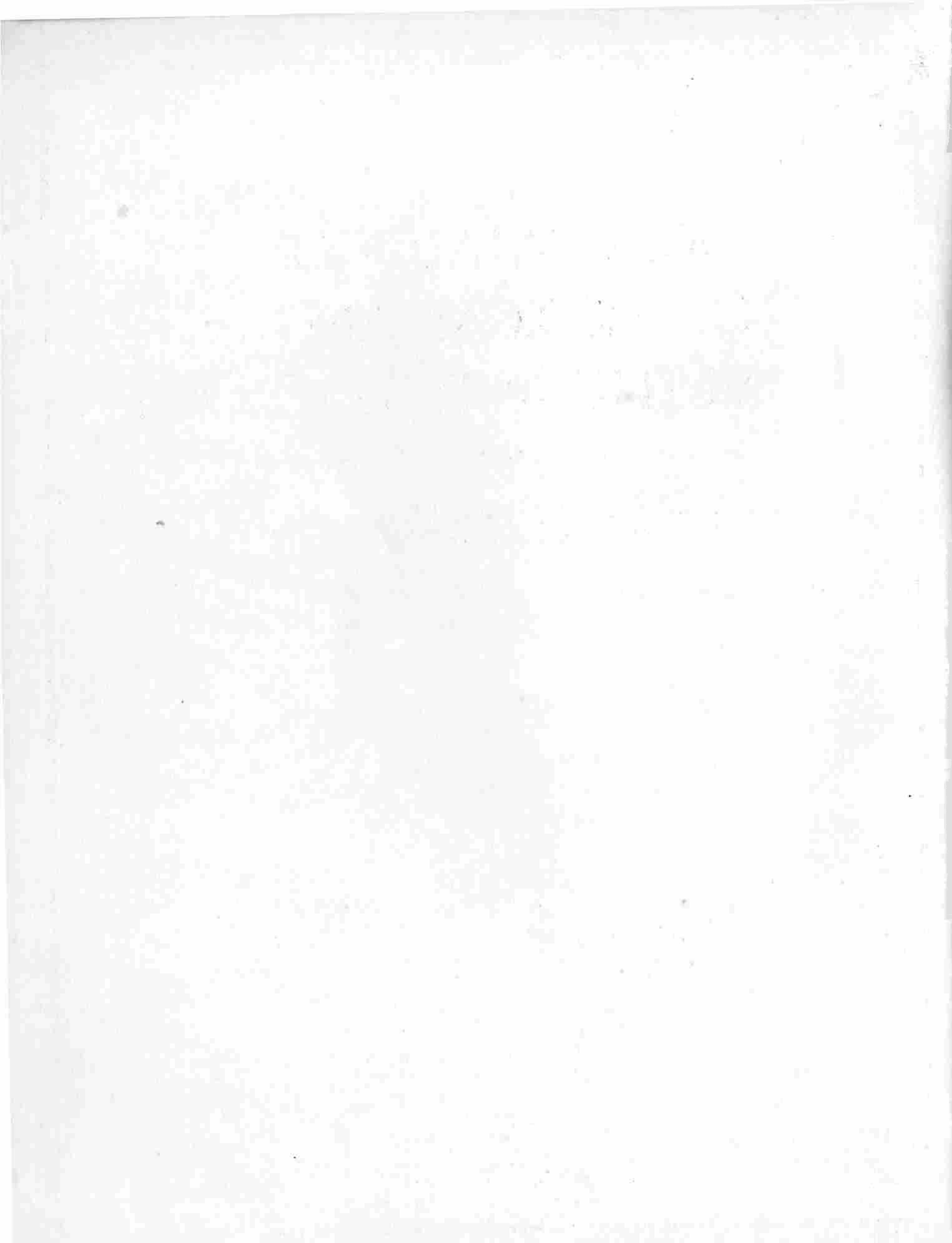
SUPPLEMENT 22, PART 6, SECTION A. SUBJECT HEADINGS: A-I

PARASITE-SUBJECT CATALOGUE
SUBJECT HEADINGS AND TREATMENT



UNITED STATES
DEPARTMENT OF
AGRICULTURE

PREPARED BY
SCIENCE AND
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ADMINISTRATION



PREFACE

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SUPPLEMENT 22, PART 6, SECTION A. SUBJECT HEADINGS: A-I

PARASITE-SUBJECT CATALOGUE SUBJECT HEADINGS AND TREATMENT

By

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WASHINGTON, D.C.
ISSUED AUGUST, 1979

VETERINARY ZOOLOGY OF MEDICAL AND INDEX-CATALOGUE

SUPPLEMENT NO. 25, PART B, SECTION A, SUBJECT HEADINGS A-1

SUBJECT HEADINGS AND TREATMENT
PARASITE SUBJECT CATALOGUE

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PREFACE

The Index-Catalogue of Medical and Veterinary Zoology is an index to the world's literature on animal parasites of animals, including man. The Catalogue is distributed to qualified individuals and libraries throughout the world without charge. It has been maintained in cumulative files since 1892. Only the Author Catalogue has been published in its entirety. A revision of the Author Catalogue of the Index-Catalogue of Medical and Veterinary Zoology, consisting of Parts 1 to 18, was published during the period 1932-52. Beginning in 1953, a series of supplements designed to publish the backlog was initiated. This was completed with Supplement 6, published in 1956. From 1956 to 1964, supplements covering authors A to Z were issued on an annual basis.

Beginning with Supplement 15, the Parasite-Subject Catalogues, containing indices to the author references, have been issued. The Author Catalogues of Supplements 15-21 continued the format of previous supplements. Users should note that for each reference in the Author Catalogues of these supplements the author(s) plus the date and letter (e.g., Smith, J.; and Doe, L., 1978 b) are the key to all items in the Parasite-Subject Catalogues derived from that reference. In other words, when using the Parasite-Subject Catalogues of Supplements 15-21, it is necessary to consult the Author Catalogue of the corresponding supplement for complete bibliographic information.

Commencing with Supplement 22, basic bibliographic information is included with each entry in Parts 2-7. It should be emphasized, however, that it will still be useful to consult the Author Catalogue for a variety of other information that may be found there: Title of the reference, translated title, language of text and summaries, issue date, library from which the original may be obtained, published corrections, related references by the same author, and other miscellaneous information.

Each supplement consists of the following parts:

- Part 1, Authors: A-Z
- Part 2, Parasite-Subject Catalogue: Parasites: Protozoa
- Part 3, Parasite-Subject Catalogue: Parasites: Trematoda and Cestoda
- Part 4, Parasite-Subject Catalogue: Parasites: Nematoda and Acanthocephala
- Part 5, Parasite-Subject Catalogue: Parasites: Arthropoda and Miscellaneous Phyla
- Part 6, Parasite-Subject Catalogue: Subject Headings and Treatment
- Part 7, Parasite-Subject Catalogue: Hosts

Users should bear in mind that this is an Index-Catalogue, not a treatise, and should not expect to find reasons for any given entry. Nor does citing of synonymy mean that it is necessarily correct. The same statement holds for hosts, locations, localities, authorship of taxa, designation of new taxa, etc. These items are cited as given by the author(s) of the publication being indexed.

The information included in any given supplement represents only the publications that have been indexed in that supplement; and therefore, exclusion of, or limited entries for, any given author or parasite has no significance. No pretension is made for completeness, and assistance in correcting errors or obtaining additional information is appreciated. Reprints of papers on parasitology are requested.

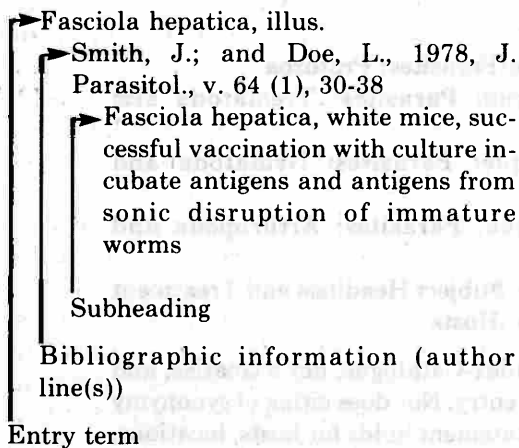
EXPLANATORY NOTE

Author Catalogue

The Author Catalogue (Part 1 of each supplement) contains full bibliographic information for each publication indexed during the compilation of that supplement. A symbol for the library from which the original publication may be obtained is given at the end of each entry, e.g., Wa, Wm, Wc, etc. A key to these library symbols may be found in Supplements 10 and 20. A list of serial abbreviations new to our files is published at the beginning of each Author Catalogue.

Parasite Catalogues

The Parasite Catalogues (Parts 2-5 of each supplement) are divided by parasite phyla (Protozoa, Trematoda, etc.). They are arranged alphabetically by genera, parasitic diseases, and higher taxa and then alphabetically by species within genera. Entries under each heading are in turn arranged alphabetically by authors and then chronologically for each author. Each entry consists of the name of the parasite or parasitic disease, the author(s) of the publication, date, abbreviated title of the publication, volume, number, inclusive pages, and a subheading. Illustrations of parasites are indicated by the word *illus.* following the name of the parasite.



A variety of information is found indented beneath the author line(s) of each entry: Classification, hosts, synonymy, keys, treatment, etc. Subheadings are guides to the subject matter of the publication.

- (1) **Classification:** In entries based on systematic articles, the subheading may give the higher taxa in which the taxon has been placed or it may list the lower taxa included in a higher taxon.
- (2) **Hosts:** The only hosts recorded are those that pertain directly to the author's own work. Scientific host names are used unless the author gives only common names, in which case the host names are given exactly as in the original publication.

However, when host common names are in Cyrillic alphabet languages, host Latin names are assigned and listed instead of the common name; these are in square brackets [].

Locations of parasites in or on hosts are given in parentheses (). Where a host-parasite relationship is well known, a host may be given under a parasite name and not in the Host Catalogue; this applies particularly to parasites of medical and veterinary importance and of worldwide distribution. A + before the host name on the parasite entry means that no host entry was made for this particular reference.

- (3) **Synonymy:** Usually only those synonyms which the author indicates as new, or which are new to the files of the Index-Catalogue of Medical and Veterinary Zoology, are given.
- (4) **Keys:** The subheading "key" indicates that the name is included in a taxonomic key.
- (5) **Treatment:** When there are several antiparasitic agents mentioned in a publication, a general term is used in the subheading, e.g., anthelmintics, insecticides, protozoacides. However, in the Treatment Catalogue, all agents tested by the investigator(s) are listed.
- (6) **Geographic Distribution:** When there are multiple hosts and geographic localities, the appropriate locality is

recorded after each host name; when the hosts of a parasite are all from one locality, they are recorded as "all from" this locality.

- (7) **Other Subject Matter:** Phrases indicate other subject matter discussed (e.g., immunity, metabolism, morphology, etc.).

Subject Headings Catalogue

The Subject Headings Catalogue (the first section of Part 6 of each supplement) is an alphabetic arrangement of entry terms from a controlled list of subject headings. Each entry consists of the subject heading, bibliographic information, and a subheading reflecting the information contained in the paper. Subject headings with numerous entries are separated into alphabetized subdivisions, e.g.,

Immunity
Immunity, Agglutination
Immunity, Allergy

Treatment Catalogue

In the Treatment Catalogue (a section of Part 6 of each supplement), all entries referring to one antiparasitic agent are grouped under one heading (regardless of the name used by the investigator) and are then listed alphabetically by author. Other names for the same agent are cross-referenced to the name used for filing. When generic and chemical names are available, preference is given to those names as headings rather than to trade names or code numbers and letters. Code number designations for compounds are entered in the Number Index in numerical order and cross-referenced to the name under which they are listed in the alphabetical section. Salts of a compound are usually grouped together, e.g., piperazine adipate, piperazine citrate, etc., are all listed under Piperazine. Sometimes verifying synonymy of drug names is impossible; consequently, groupings and cross-references are not always authenticated although as many as possible have been checked with reliable sources. In some instances, the cross-references are based entirely on information in papers indexed and verification was not possible. Foreign language terminology has been anglicized

where feasible. Chemosterilants, Molluscicides, and Repellents are entered under these three collective headings and not under the individual chemical. The format is the same as the parasite entries: Entry term (in this case, drug name), bibliographic information, and subheading.

Host Catalogue

The Host Catalogue (Part 7 of each supplement) is arranged alphabetically by genera, common names, and higher taxa and then alphabetically by species within genera. Nominate subspecies are interfiled with the species. Entries under each heading are in turn arranged alphabetically by author(s) and then chronologically for each author. The format is the same as in the other Catalogues, i.e., entry term (in this case, host name), bibliographic information, and subheading. Indented beneath the author line(s) of each host entry are all the parasites of a particular phylum that were reported from this host in the paper in question. Body locations of these parasites will be found in parentheses () either in the subheading or with the host name. Experimental infection is reported as such. When there are multiple parasites and geographic localities, the appropriate locality is recorded after each parasite name; when the parasites from this host are all from one locality, they are recorded as "all from" this locality. When authors use only common names of hosts, scientific names are cautiously supplied from authoritative sources after careful consideration. Cross-references from the common name used by the author to the scientific name supplied by the Index-Catalogue are filed among the host entries. Such supplied names are given in square brackets []. If a scientific name cannot be supplied, English common names are used. Scientific names or English common names are always supplied for common names in Cyrillic alphabet languages, and no cross-references are made. Surveys of parasites of humans and domestic animals are often indexed under geographic headings and entered in Part 6, Subject Headings, in addition to appearing in the Host Catalogue. In this case, all parasite phyla are grouped under the same host entry, and individual parasite entries are not included in the Parasite Catalogue.

Visitors are welcome to come to the Animal Parasitology Institute to use the cumulative files. Arrangements should be made in advance for lengthy visits.

All correspondence should be addressed to:

Index-Catalogue of Medical and Veterinary Zoology
Animal Parasitology Institute
USDA, SEA-AR, BARC-East, Building 1180
Beltsville, Maryland 20705 U.S.A.

It is hoped that these Catalogues will serve as a useful tool to workers in the field of parasitology. Users are requested to preserve the Catalogues, since they are not designed for general distribution and the edition is limited.

The compilers thank the staffs of the Technical Information Systems of the Science and Education Administration, the National Library of Medicine, and all other libraries who have aided us invaluablely by making publications available to us.

Trade names are used in this publication solely for the purpose of providing specific information. Mention of a trade name does not constitute a guarantee or warranty of the product by the U.S. Department of Agriculture or an endorsement by the Department over other products not mentioned.

Abnormalities. See Anomalies.

Abortion

Arnaudov, D.; et al., 1976, Vet. Med., Praha, v. 49, v. 21 (6), 375-384

Toxoplasma gondii, sheep, immunoeppizootiological study by hemagglutination, indirect fluorescence, and microprecipitation reaction in agar gel; higher incidence in aborting ewes and in sheep in montane regions: Bulgaria; Czechoslovakia

Abortion

Donev, A., 1975, Vet. Med. Nauki, v. 12 (1), 64-68

final results of pregnancy in 5 flocks of sheep positive for toxoplasmosis using complement fixation test, abortions believed not to be due to toxoplasmosis

Abortion

Fayer, R.; Johnson, A. J.; and Lunde, M., 1976, J. Infect. Dis., v. 134 (6), 624-628

Sarcocystis fusiformis, field bred cows (exper.), clinical and pathological signs of infection, occurrence of abortions, no evidence of congenital transmission to calves or fetuses; Sarcocystis may play significant role in bovine abortions

Abortion

Kendrick, J. W., 1976, Theriogenology, v. 5 (3), 150-152

Trichomonas foetus-induced abortion in cattle, laboratory diagnosis, organisms in placental fluid or abomasal contents of aborted fetus; culture medium

Abortion

Koplatadze, D. K.; and Gogiashvili, L. E., 1975, Soobshch. Akad. Nauk Gruzinsk. SSR, v. 80 (1), 205-208

toxoplasmosis, pregnant women, change of placenta ultrastructure (syncytium and trophoblast cells), can lead to death of placenta and interruption of pregnancy

Abortion

Laudanski, T., 1974, Polski Tygod. Lekar., v. 29 (32), 1389-1390

Toxoplasma gondii causing habitual abortion in women successfully treated with daraprim in conjunction with rovamycin or bayrena, normal healthy newborns delivered after therapy: Poland

Abortion

Leek, R. G.; and Fayer, R., 1978, Cornell Vet., v. 68 (1), 108-123

Sarcocystis ovis-induced abortion in sheep (exper.), clinical signs, pathology, no evidence of intrauterine transmission

Abortion

Lenzi, E., 1976, Patol. e Clin. Ostet. e Ginec., v. 4 (2), 95-98

human toxoplasmosis and association with habitual abortion, value of systematic evaluation for toxoplasmosis in cases of abortion and prophylactic therapy with pyrimethamine: Italy

Abortion

Mahajan, R. C.; et al., 1976, Indian J. Med. Research, v. 64 (6), 797-800

possible role of Toxoplasma gondii in sporadic or habitual abortion of human pregnancy

Abortion

Munday, B. L.; and Black, H., 1976, Ztschr. Parasitenk., v. 51 (1), 129-132

protozoans resembling Sarcocystis in brains of bovine fetuses and in placentas from aborted cows, pathological changes

Abortion

Seamon, P. J.; et al., 1977, Vet. Rec., v. 101 (16), 324-325

Toxoplasma cysts, mice (exper.), latex agglutination test as a rapid diagnostic method, application to diagnosis of ovine abortion

Abortion

Stray-Pedersen, B.; and Lorentzen-Styr, A.M., 1977, Am. J. Obst. and Gynec., v. 128 (7), 716-721

Toxoplasma gondii in pregnant women, possible role of uterine infections in sporadic and habitual abortions, comparative study of controls and women with suspected infections using seroimmunologic methods and endometrial biopsies: Oslo, Norway

Abortion

Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 412-425

Toxoplasma gondii, sheep, importance as a cause of reproductive loss, main cause of abortion: Norway

Abortion

Waldeland, H., 1977, Acta Vet. Scand., v. 18 (1), 91-97

Toxoplasma gondii, sheep flocks, reproductive loss in specific age groups, apparently no transmission between sheep, probably transmitted by silage

Abscess

Chastel, C.; Thomas, J.; and Bordahandy, R., 1971, Medecine Trop., v. 31 (3), 327-332

unidentified fluke causing fatal hepatic distomiasis and multiple necrotic abscesses of abdominal subcutaneous tissues in young child: Biafran Zone of Nigeria

Abscess

Gortazar Hajar, P.; and Cigala Cano, J. L., 1970, Minerva Pediat., v. 22 (26), 1333-1335

Ascaris lumbricoides infection in child resulting in cholecystitis and hepatic abscess, case report, clinical management: Guadalajara

Abscess

James, T., 1970, Med. Proc., Johannesburg, v. 16 (8), 127-131

Ascaris lumbricoides abscess of liver in young children, clinical symptoms and pathology

Abscess

- Khamboonruang, C.; and Sakulwong, K., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (4), 588 [Demonstration]
Fasciola hepatica, immature adult worm removed from abscess on right breast region of 9-year old girl, clinical report: Chiangmai, Thailand

Abscess

- Lee, J. C., 1972, Nettai Igaku (Trop. Med.), v. 14 (2), 97-110
Trichomonas vaginalis, in vitro growth inhibiting effects of 8 antitrichomonal drugs; therapeutic effects of trichomycin, piperazinotazole, metronidazole and nimorazole against abscess formation in mice (exper.)

Abscess

- Lie Kian Joe; et al., 1962, Med. J. Malaya, v. 17 (1), 37-39
trematode ova, probably Poikilorchis sp., found in retro-auricular abscess excised from child, possible infection from eating fresh water crabs: Sarawak

Abscess

- Rosencrans, M.; and Barak, J., 1969, N. York State Dental J., v. 35 (5), 271-273
Taenia solium in human, Cysticercus cellulosae with abscess formation excised from lesion on mucosal surface of man's lip: New York City

Abscess

- Wong Soon Kai; and Lie, K. J., 1965, Med. J. Malaya, v. 19 (3), 229-230
trematode eggs removed from exudate and wall of excised periauricular abscess of child probably ova of Poikilorchis sp.: Sarawak

Abscess, Amebic

- Abioye, A. A., 1976, J. Trop. Med. and Hyg., v. 79 (11), 252-255
Entamoeba histolytica, drug (emetine, metronidazole) and immuno-diagnostic (fluorescent antibody, gel diffusion and latex agglutination tests) resistant amoebic hepatic abscess in man, case report, blood-abscess cavity barrier postulated as possible mechanism for diagnostic failure: Nigeria

Abscess, Amebic

- Alora, B. D.; Ramon, F. J.; and Tan-Alora, A., 1972, Philippine J. Int. Med., v. 10 (1), 40-47
human amoebiasis, radiologic visualization of hepatic abscess cavity after aspiration in order to assess size of cavity and response to therapy

Abscess, Amebic

- Apt, W.; Difilippi, C.; and Subiabre, V., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 55-56
Entamoeba histolytica trophozoites in exudates of hepatic abscess in young girl, case report: Chile

Abscess, Amebic

- Berthoud, S.; Rime, F.; and Buffle, P., 1976, Schweiz. Med. Wchnschr., v. 106 (24), 828-830
hepatic amoebic abscess presenting with systemic symptoms in man who had traveled extensively in tropics, abscess masked by previous treatment of intestinal symptoms with iodoquinolines, diagnosed by liver scan and cured with metronidazole: Switzerland

Abscess, Amebic

- Bhasin, A. S.; et al., 1977, J. Trop. Med. and Hyg., v. 80 (8), 169-172
human hepatic amoebic abscesses, use of micro-opaque barium sulfate to assess resolution time of abscesses, favorable comparison with scintiscanning

Abscess, Amebic

- Bray, R. S.; and Harris, W. G., 1977, Clin. and Exper. Immunol., v. 29 (1), 147-151
Entamoeba histolytica, guinea pigs, cellular immune responses to amoebic liver abscess, no dermal hypersensitivity but positive lymphocyte transformation and macrophage-migration inhibition, time sequence of responses, role of immunodepression unclear

Abscess, Amebic

- Bunnag, D.; et al., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (1), 99-102
human hepatic amoebic abscess, successful clinical trials combining a single course of metronidazole with abscess aspirations: Bangkok, Thailand

Abscess, Amebic

- Cordero A., O., 1974, Neumol. y Cirug. Torax, v. 35 (2), 83-89
human amoebiasis, thoracic complications of hepatic abscess, clinical aspects, surgical management, diagnosis

Abscess, Amebic

- Dharmalingam, S. K.; and Mahadev, V., 1970, Med. J. Malaya, v. 25 (2), 83-90
radioisotope color scanning of the liver in diagnosis of human hepatic amoebic abscess

Abscess, Amebic

- Diaz M., G. S.; et al., 1971, Neumol. y Cirug. Torax, v. 32 (6), 393-403
human hepatic amoebic abscess with resulting amoebic pericarditis, need for early diagnosis stressed: Mexico

Abscess, Amebic

- Dournovo, P.; et al., 1976, Nouv. Presse. Med., v. 5 (34), 2237-2239
human hepatic amoebic abscess, clinical cases, current status of therapy

Abscess, Amebic

- Doust, B. D., 1976, Gastroenterology, v. 70 (4), 602-610
use of ultrasound to diagnose and assess healing process of human amoebic liver abscess

- Abscess, Amebic
El-Zayadi, A. M.; Hartmann, M. G.; and Mohr, W., 1976, *J. Trop. Med. and Hyg.*, v. 79 (6), 120-122
patterns of liver function and blood protein abnormalities in human chronic amoebiasis and amoebic hepatic abscess
- Abscess, Amebic
Farid, Z.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 822-823
Entamoeba histolytica, human hepatic amoebic liver abscess as frequent cause of obscure fever, diagnosis by counterimmunoelectrophoresis and other immunoserologic techniques, metronidazole successful as initial therapy but combined with aspiration and drainage of large abscesses: Cairo, Egypt
- Abscess, Amebic
Geslien, G. E.; Thrall, J. H.; and Johnson, M. C., 1974, *J. Nuclear Med.*, v. 15 (7), 561-563
human hepatic amoebic abscess, gallium scanning to assess size and resolution of acute lesions
- Abscess, Amebic
Goegler, H.; and Knight, R., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (2), 177-185
Entamoeba histolytica, hamsters, effect of hepatic injury upon development of amoebic liver abscess
- Abscess, Amebic
Gregory, P. B., 1976, *Gastroenterology*, v. 70 (4), 585-588
case report of refractory hepatic amoebiasis in man despite multiple courses of emetine, chloroquine, and metronidazole, final resolution of infection after treatment of *Entamoeba histolytica* intestinal infection with various drugs considered as probable cause of continuing reinfection of liver: California
- Abscess, Amebic
Gruet, M.; et al., 1973, *Medecine et Armees*, v. 1 (3), 5-10
human hepatic amoebiasis, use of scintigraphy to diagnose amoebic abscess and evaluate need for surgical intervention
- Abscess, Amebic
Haff, R. C.; and Norgaard, R. P., 1974, *Mil. Med.*, v. 139 (3), 192-195
human amoebiasis, metronidazole treatment of cecal amebomas and hepatic abscesses after locating by liver scan, military personnel returning from duty in Southeast Asia
- Abscess, Amebic
Jarpa, A., 1972, *Bol. Chileno Parasitol.*, v. 27 (3-4), 96-102
statistical analysis of clinical records of 85 patients with hepatic amoebiasis abscesses: Santiago, Chile
- Abscess, Amebic
Kane, J. G.; Fossieck, B. E., jr.; and Parker, R. H., 1976, *J. Am. Med. Ass.*, v. 236 (23), 2653-2654
Entamoeba histolytica, false-positive reaction in therapeutic trial using metronidazole to differentiate between human pyogenic and amoebic liver abscess: Washington, D. C.
- Abscess, Amebic
Kenney, M.; et al., 1975, *N. York State J. Med.*, v. 75 (9), 1542-1543
Entamoeba histolytica, amoebic lung abscess in man who 5 years previously had been treated for intestinal amoebiasis, case report, differential diagnosis: New York City
- Abscess, Amebic
Lamont, A. C.; and Wicks, A. C. B., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 302-305
amoebic liver abscess, review of 88 patients, clinical aspects including some atypical presentations, laboratory investigations, need for diagnostic awareness in young age groups, metronidazole drug of choice with repeated aspirations for large abscesses: Rhodesia
- Abscess, Amebic
Lane, D., 1969, *Med. J. Australia*, v. 1 (15), 764-767
differential diagnosis of human hepatic amoebic abscess from primary hepatic carcinoma
- Abscess, Amebic
Leuschner, U., 1972, *Medicina Alemana*, v. 13 (6), 903-911
clinical review of diagnosis and treatment of human hepatic amoebic abscess
- Abscess, Amebic
McCort, J. J., 1976, *West. J. Med.*, San Francisco, v. 124 (5), 426-428
diagnosis of human hepatic amoebic abscess using total body opacification and tomography
- Abscess, Amebic
Maldonado Ramirez, H.; et al., 1972, *Neumol. y Cirug. Torax*, v. 33 (1), 19-24
human amoebic hepatic abscess with associated amoebic pericarditis and tamponage, surgical management of 3 cases: Mexico
- Abscess, Amebic
Miyamoto, A. T.; Thadepalli, H.; and Mishkin, F. S., 1974, *N. England J. Med.*, v. 291 (25), 1363 [Letter]
human hepatic amoebic abscess, ⁶⁷gallium images of gallium citrate scan used in diagnosis
- Abscess, Amebic
Morin, M. E.; Baker, D. A.; and Marsan, R. E., 1976, *J. Am. Med. Ass.*, v. 236 (14), 1607-1608
human hepatic abscess of *Entamoeba histolytica* origin diagnosed by total body opacification and evaluated post therapy
- Abscess, Amebic
Morris, J.; et al., 1969, *Med. J. Australia*, v. 2 (26), 1301-1303
use of liver scanning in the diagnosis of human *Entamoeba histolytica* hepatic abscess
- Abscess, Amebic
Munabe, K. K.; et al., 1975, *Mater. Med. Pol.* (22), v. 7 (1), 41-46
amoebiasis, locations of human hepatic abscess, clinical picture and differentiation from various other hepatic pathologies

Abscess, Amebic

Parrish, R. A., jr.; and Still, J., 1970, Med. Times, New York, v. 98 (2), 157-160
amoebic abscess of liver in children, diagnostic problems, clinical management: Georgia

Abscess, Amebic

Payet, M.; Sankale, M.; and Ancelle, J. P., 1970, Medecine Afrique Noire, v. 17 (3), 219-224
medical management of amoebic hepatic abscesses, case reports, evaluation of treatment using scintigraphy

Abscess, Amebic

Ramachandran, S., 1974, Postgrad. Med. J., London (589), v. 50, 689-693
human hepatic amoebiasis, radiologic changes in left lobe amoebic liver abscess provides adequate diagnostic confirmation

Abscess, Amebic

Ramachandran, S.; Shanmuganathan, S. S.; and Nagarajah, N., 1976, J. Trop. Med. and Hyg., v. 79 (5), 97-101
human serum protein estimations in hepatic amoebic abscess, pre-treatment and post-treatment surveillance

Abscess, Amebic

Ramirez Sanchez, C.; and de Cisneros Santos, T. A., 1976, Medicina, Mexico (1212), an. 57, v. 56, 279-282
amoebiasis, human, surgical treatment of hepatic abscesses that had responded poorly to previous metronidazole and emetine therapy: Puebla, Mexico

Abscess, Amebic

Rasaretnam, R.; and Wijetilaka, S. E., 1976, Postgrad. Med. J., London (607), v. 52, 269-274
aids to diagnosis of less frequently occurring left lobe hepatic abscess resulting from human Entamoeba histolytica infection, case analyses, presenting symptoms

Abscess, Amebic

Ravi, V. V.; et al., 1975, Indian J. Med. Research, v. 63 (12), 1732-1736
titers of indirect hemagglutination test and complement levels compared using sera and abscess pus from patients infected with hepatic amoebic abscesses, sero-negative and sero-positive cases investigated for possible differences in immune responses

Abscess, Amebic

Sapunar, J.; Munoz, M. A.; and Castro, J., 1967, Bol. Chileno Parasitol., v. 22 (2), 60-65
Entamoeba histolytica, case report of hepatic abscess in man which ruptured into the bronchi after abscess aspiration, emetine and chloroquine therapy: Santiago, Chile

Abscess, Amebic

Scragg, J. N.; and Proctor, E. M., 1977, Arch. Dis. Childhood, v. 52 (5), 408-410
Entamoeba histolytica in children, tinidazole highly effective in treatment of hepatic abscess, clinical trials: South Africa

Abscess, Amebic

Stotka, V. L., 1975, North Carolina Med. J., v. 36 (10), 607-611
Entamoeba histolytica, hepatic abscesses in Vietnam veterans, diagnostic difficulties, clinical aspects: North Carolina

Abscess, Amebic

Tandon, B. N.; et al., 1975, Exper. and Molecular Path., v. 23 (2), 155-163
Entamoeba histolytica, human, amoebic abscess, electron microscopic study of liver biopsies, evidence of diffuse parenchymal injury similar to that reported for patients with non-suppurative hepatic amoebiasis

Abscess, Amebic

Tubis, M.; et al., 1975, Nuclear-Med., v. 14 (2), 163-171
human amoebiasis, labeled metronidazoles (bromometronidazole and technetium-penicillamine-flagyl complex) as potential agents for scintigraphic visualization of hepatic abscess

Abscess, Amebic

Tubis, M.; et al., 1976, Nuklearmedizin, v. 15 (1), 36-38
Entamoeba histolytica in humans, demonstration of hepatic abscess by scintigraphy utilizing a radiopharmaceutical (bromometronidazole)

Abscess, Amebic

Zuidema, P. J., 1975, Nederl. Tijdschr. Geneesk., v. 119 (35), 1339-1345
Entamoeba histolytica, human hepatic amoebic abscesses, treatment regimens using metronidazole, emetine and diloxanide furoate

Absorption. [See also Osmosis; Permeation]

Absorption

Areekul, S.; Pinyawatana, W.; and Kitkornphan, S., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 386-390
hookworm, human, red cell and serum folate levels and folic acid absorption, impairment of folate absorption and iron deficiency anemia were probably primary and secondary causes of low serum folate content in these patients

Absorption

Arme, C., 1976, Parasitology, v. 73 (2), xxiii [Abstract]
nutrition in cestodes

Absorption

Bennett, J. L.; and Bueding, E., 1973, Molec. Pharm., v. 9 (3), 311-319
Schistosoma mansoni, 5-hydroxytryptamine (putative excitatory neurotransmitter), synthesis could not be demonstrated, uptake mechanism

Absorption

Booden, T.; Boonlayangoor, P.; and Albach, R. A., 1976, J. Protozool., v. 23 (2), 20A-21A [Abstract]
Entamoeba histolytica axenically grown, mechanisms of purine and pyrimidine transport

Absorption

Borgers, M.; et al., 1975, J. Parasitol., v. 61 (5), 830-843

Taenia taeniaeformis, mice, parenteral treatment with mebendazole, progressive morphological changes in cysticercoi confined to absorptive compartment of larvae (tegument and tegumental cells), primary interference with microtubular system

Absorption

von Brand, T.; and Weinbach, E. C., 1975, Ztschr. Parasitenk., v. 48 (1), 53-63

Taenia taeniaeformis, larvae, calcium uptake into soft tissues and calcareous capsules, measured in vivo and in vitro with radioactive labelling, accumulated by diffusion, not by active transport

Absorption

Carbo'Baptista, N.; Larbier, M.; and Yvore, P., 1976, Avian Path., v. 5 (3), 187-194

Eimeria acervulina, chicks, decreased intestinal absorption of ^{14}C L-lysine and water accompanied by an increase in tissue water content and in secretion rate of mineral ions (Na^+ and K^+)

Absorption

Chappell, L. H., 1976, Parasitology, v. 73 (2), xxii [Abstract]

Schistosoma, *Fasciola*, relative nutritional roles of gut and tegument

Absorption

Chowdhury, N.; and De Rycke, P. H., 1976, Ztschr. Parasitenk., v. 50 (2), 151-160

Hymenolepis microstoma, cysticercoi, young adult, egg producing adult, qualitative distribution of neutral lipids and phospholipids, possible role in gonad maturation, transformation of ovum to oncosphere and permeation of ions

Absorption

Cook, G. C., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (6), 419-436

role of *Giardia lamblia*, *Strongyloides stercoralis* and possibly other intestinal parasites in producing malabsorption in Africans

Absorption

Cook, G. C., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 143-145

Plasmodium falciparum, *P. malariae* in humans, possible correlations between malarial infection, host malnutrition and immunoglobulin G concentrations

Absorption

Cosgrove, W. B.; and Hajduk, S. L., 1975, J. Protozool., v. 22 (3), 26A [Abstract]

Trypanosoma equiperdum, inhibition of membrane transport of glucose by 2-deoxy-D-glucose, loss of motility, morphology, and infectivity, unsuccessful attempt to use in controlling established infections

Absorption

Damper, D. W.; and Patton, C. L., 1976, J. Protozool., v. 23 (2), 16A [Abstract]

Trypanosoma brucei, pentamidine transport system, structural specificity

Absorption

Damper, D.; and Patton, C. L., 1976, J. Protozool., v. 23 (2), 349-356

Trypanosoma brucei brucei, *T. b. rhodesiense*, pentamidine transport and sensitivity, concluded that reduced drug uptake is primary mechanism of pentamidine resistance in trypanosomes

Absorption

Davies, E. E.; and Howells, R. E., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 20 [Demonstration]

Plasmodium berghei berghei oocysts, uptake of ^3H -adenosine but not ^3H -thymidine

Absorption

Dey-Hazra, A.; Enigk, K.; and Kolm, H. P., 1977, Research Vet. Sc., v. 22 (3), 353-356

Strongyloides ransomi, piglets (exper.), moderate and heavy infections, intestinal absorption rates of palmitate and 2-aminoisobutyric acid, comparison with uninfected piglets

Absorption

Ernst, S. C., 1975, J. Parasitol., v. 61 (4), 633-647

Schistosoma mansoni, esophagus, cecum, tegument, digestive-absorptive functions, acid phosphatase activity, electron-dense tracers all ingested but none phagocytized

Absorption

Garcia, F. T.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 859-865

Strongyloides stercoralis, humans, results of study of intestinal function and morphology in strongyloidiasis show that associated malabsorption syndrome is secondary to concomitant malnutrition and not to the parasite per se

Absorption

Gheorghescu, P.; et al., 1976, Med. Interne, Bucarest, v. 14 (1), 31-38

Giardia infections alone or in combination with *Strongyloides* or *Taenia solium*, absorption studies before and after treatment

Absorption

Goldberg, S. S.; et al., 1976, J. Protozool., v. 23 (1), 179-186

Trypanosoma cruzi strains Y and MR, epimastigotes and trypomastigotes, comparative kinetics of arginine and lysine transport

Absorption

Goldstein, P. D.; and Patton, C. L., 1976, J. Protozool., v. 23 (2), 16A [Abstract]

Trypanosoma brucei, pentamidine transport in relation to antigenic variation and drug resistance

Absorption

Halton, D. W., 1976, Parasitology, v. 73 (2), xxi-xxii [Abstract]

Calicotyle kroyeri vs. *Diclidophora merlangi*, examination of 3 organ systems with respect to nutrition, diet, feeding mechanism (foregut, gut caeca, tegument)

Absorption

Halton, D. W., 1977, *Parasitology*, v. 75 (2), i [Abstract]
Diclidophora merlangi, tegument, surface morphology, experimental evidence for functional role in absorption of low molecular weight nutrients

Absorption

Hansen, B.; and Read, C. P., 1973, *J. Protozool.*, v. 20 (4), 501
Trypanosoma gambiense, amino acid transport

Absorption

Hariri, M., 1975, *J. Parasitol.*, v. 61 (3), 440-448
Mesosestoides corti, tetrathyridia, kinetics of uptake of 5-hydroxytryptamine, possible role as neurotransmitter

Absorption

Hart, R. J.; Turner, R.; and Wilson, R. G., 1977, *Internat. J. Parasitol.*, v. 7 (2), 129-134
Hymenolepis nana, bunamidine causes decrease in glucose uptake and increase in glucose efflux and stimulation of surface phosphatase activity, suggests that disruption of integument is mode of action by which worm death is caused, ultrastructural studies confirm these biochemical indications of integumental damage

Absorption

Henderson, D., 1977, *Parasitology*, v. 75 (3), 277-284
Hymenolepis diminuta, in vitro rate of absorption of glucose/unit dry weight of worm falls with increasing worm age, with increasing worm weight, and with increasing infection density

Absorption

Higgins, J. C., 1977, *Parasitology*, v. 75 (2), xx-xxi [Abstract]
Bucephalus haimeanus, nutrient uptake by metacercarial stage, hydrolytic enzymes in cyst wall

Absorption

Hurwitz, S.; Shamir, N.; and Bar, A., 1973, *Isotopes and Radiation Parasitol.* III, 61-65
Ascaridia galli-infected chicks, absorption and digestion of protein and absorption of phosphate from intestine

Absorption

Hustead, S. T.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 314-321
Taenia taeniaeformis, *T. crassiceps*, *Echinococcus granulosus*, permeability studies: detection of host immunoglobulins of several different classes within bladder fluids, uptake of intact heterologous and homologous host proteins in vitro and in vivo

Absorption

Hustead, S. T.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 322-326
Taenia taeniaeformis, *T. crassiceps*, larvae, increased rate of absorption of certain macromolecules in presence of antibody and complement but substances associated with larvae in vitro can deplete functional complement levels in surrounding medium leading to restoration of normal permeability control

Absorption

Isseroff, H.; Ertel, J. C.; and Levy, M. G., 1976, *Comp. Biochem. and Physiol.*, v. 54 (1B), 125-133
Schistosoma mansoni, absorption of amino acids, "results indicate that classic active transport can occur in a trematode"

Absorption

Jackson, P. R.; and Fisher, F. M., jr., 1977, *J. Protozool.*, v. 24 (2), 345-353
Trypanosoma equiperdum, carbohydrate effects on transport and short-term metabolism of amino acids

Absorption

Jacobson, E.; Kubalska, J.; and Zytkeiwicz, B., 1972, *Pediat. Polska*, v. 47 (6), 689-694
Lamblia intestinalis in children, D-xylose test to determine extent of intestinal malabsorption associated with infection

Absorption

James, B. L., 1976, *Parasitology*, v. 73 (2), xxii-xxiii [Abstract]
 nutrition of marine Digenea in primary molluscan host

Absorption

Joyner, L. P.; et al., 1975, *Avian Path.*, v. 4 (1), 17-33
Eimeria acervulina-infected chickens, amino acid malabsorption and intestinal leakage of plasma proteins, food intake and growth, results suggest that anorexia and protein leakage from gut are major factors in pathogenesis

Absorption

Layrisse, M.; and Vargas, A., 1975, *Progr. Food and Nutrition Sc.*, v. 1 (10), 645-667
 human intestinal parasites, mechanisms by which parasites interfere with host nutrition (competition for nutrients, malabsorption, blood loss, excess nutrient utilization), extensive review

Absorption

Levy, M. G.; and Read, C. P., 1975, *J. Parasitol.*, v. 61 (4), 627-632
Schistosoma mansoni, adults, nature of purine and pyrimidine uptake

Absorption

Levy, M. G.; and Read, C. P., 1975, *J. Parasitol.*, v. 61 (4), 648-656
Schistosoma mansoni, nucleotide hydrolysis at tegumental surface, relation between tegumentary phosphohydrolases and purine and pyrimidine transport systems

Absorption

McCracken, R. O.; Lumsden, R. D.; and Page, C. R. III, 1975, *J. Parasitol.*, v. 61 (6), 999-1005

Hymenolepis diminuta, sodium-sensitive nucleoside transport

Absorption

McMullen, H. L.; Sauer, J. R.; and Burton, R. L., 1976, *J. Insect Physiol.*, v. 22 (9), 1281-1285

Amblyomma americanum, mouth confirmed as site of water vapor absorption, movement of chloride ions traced in desiccated and rehydrated ticks, suggests possible role of salivary glands in water vapor uptake

Absorption

Moore, M. N.; and Halton, D. W., 1975, *Ztschr. Parasitenk.*, v. 47 (1), 45-54

Fasciola hepatica, rediae, cercariae, histochemistry with particular emphasis on enzymes, localization in tegument and caecum suggests probable absorptive and digestive functions

Absorption

Mukkada, A. J.; and Simon, M. W., 1977, *Exper. Parasitol.*, v. 42 (1), 87-96

Leishmania tropica promastigotes, properties of active transport system responsible for uptake and accumulation of L-methionine

Absorption

O'Brien, W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 69-77

Strongyloides stercoralis, intestinal malabsorption associated with high eosinophilia occurring in young soldiers probably resulting from parasitic infestation: Borneo

Absorption

Ochs, H. D.; Ament, M. E.; and Davis, S. D., 1972, *N. England J. Med.*, v. 287 (7), 341-342

Giardia lamblia causing malabsorption and damage to mucosa of small intestine in child with infantile X-linked agammaglobulinemia, symptoms relieved with flagyl: Washington

Absorption

Omar, M. S.; and Gwadz, R. W., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 167-174

Brugia pahangi-infected *Aedes aegypti*, differential uptake and incorporation of tritiated thymidine and adenine by parasite and host

Absorption

Pappas, P. W.; and Freeman, B. A., 1975, *J. Parasitol.*, v. 61 (3), 434-439

Hymenolepis microstoma, mechanism of glucose transport and accumulation, sodium requirement

Absorption

Pappas, P. W.; and Hansen, B. D., 1977, *J. Parasitol.*, v. 63 (5), 800-804

Hymenolepis diminuta, chloride-sensitive glucose transport

Absorption

Patil, H. S.; and Rodgi, S. S., 1976, *Current Sc.*, Bangalore, v. 45 (17), 625-626 [Letter] *Paramphistomum cervi*, histochemical localization of non-specific esterase activity, caecum more active than cuticle, probably more involved in absorption and transfer of metabolites

Absorption

Patterson, D. S. P.; et al., 1975, *Avian Path.*, v. 4 (1), 11-16

Eimeria acervulina-infected chickens, intestinal malabsorption of amino acids, in vitro studies, results generally support view of depressed absorption but demonstration was not as technically straightforward as earlier reports suggested

Absorption

Pavlov, A. V.; and Koshkina, L. A., 1975, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 25, 106-109

ascarids, chicks, increased ATP-ase and sodium and chloride ions in body fluid of worms from hosts vaccinated before infection, possible relationships to cuticle permeability and transport system

Absorption

Pavlov, A. V.; Shishova-Kasatochkina, O. A.; and Volynskaia, K. B., 1970, *Parazitologiya, Leningrad*, v. 4 (3), 231-236

Ascaris suum, comparative transport L- vs. D-isomers of arginine, tryptophan, phenylalanine, and alanine in vitro

Absorption

Pesti, G. M.; and Combs, G. F., jr., 1976, *Poultry Science*, v. 55 (6), 2265-2274

Eimeria, site selectivity of various species for infection in particular regions of chick gastrointestinal tract used as tool to study loci of selenium absorption, potentiation of selenium deficiency by intestinal parasitism

Absorption

Podesta, R. B., 1977, *Exper. Parasitol.*, v. 42 (2), 289-299

Hymenolepis diminuta, method for in vitro determination of marker distribution volumes of mucosal extracellular space (MES) and tissue extracellular space (TES), TES also used to estimate intracellular concentration of sodium, applications and limitations in studies on kinetics of solute uptake

Absorption

Podesta, R. B., 1977, *Exper. Parasitol.*, v. 43 (1), 12-24

Hymenolepis diminuta, effect of unstirred water layers on apparent influx kinetics of glucose, galactose, and alanine uptake by worms incubated in vitro

Absorption

Podesta, R. B., 1977, *Exper. Parasitol.*, v. 43 (2), 295-306

Hymenolepis diminuta, electrolyte transport pools of tissues, effect of metabolic inhibitors, mechanism of transtegumental Na transport

Absorption

- Podesta, R. B.; et al., 1977, *Exper. Parasitol.*, v. 42 (2), 300-317
Hymenolepis diminuta, determination of unidirectional uptake rates for various non-electrolytes across surface 'epithelial' membrane, methods examined for sources of error originating both from natural variability and from the various techniques used

Absorption

- Podesta, R. B.; Evans, W. S.; and Stallard, H. E., 1977, *Exper. Parasitol.*, v. 43 (1), 25-38
Hymenolepis diminuta, *Hymenolepis microstoma*, effect of ouabain on unidirectional uptake of glucose, galactose, and alanine in vitro

Absorption

- Podesta, R. B.; and Mettrick, D. F., 1976, *Canad. J. Zool.*, v. 54 (5), 694-703
 lack of clinical manifestations in *Hymenolepis diminuta*-caused maldigestion and malabsorption in rats, determination of compensatory mechanisms including enhanced glucose- and bicarbonate-stimulated transport in infected small intestine, low mucosal permeability, and functional compensation by colon

Absorption

- Podesta, R. B.; and Mettrick, D. F., 1976, *Internat. J. Parasitol.*, v. 6 (2), 163-172
Hymenolepis diminuta, interrelationships between in situ fluxes of water, electrolytes, and glucose, hypothesis concerning function of hypertonic fluid absorption in acid-base regulation and energy metabolism

Absorption

- Podesta, R. B.; and Mettrick, D. F., 1977, *Comp. Biochem. and Physiol.*, v. 57 (2A), 265-273
Hymenolepis diminuta-infected vs. uninfected rats, permeability of mucosa of different regions of small intestine to water, electrolytes, and glucose, results best explained by decrease in passive permeability of parasitized intestinal mucosa

Absorption

- Podesta, R. B.; and Mettrick, D. F., 1977, *Canad. J. Physiol. and Pharmacol.*, v. 55 (4), 791-803
Hymenolepis diminuta, infected or uninfected rats, glucose absorption in jejunum and proximal and distal ileum

Absorption

- Poinar, G. O., jr.; and Hess, R., 1977, *Exper. Parasitol.*, v. 42 (1), 27-33
Romanomermis culicivorax, parasitic juveniles, morphological evidence of possible transport system for transcuticular uptake of nutrients

Absorption

- Ridley, M. J.; and Ridley, D. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 10-11 [Demonstration]
Giardia lamblia in humans, when associated with malabsorption is also associated with histologic changes in jejunum and with circulating antibody against *G. lamblia* detected by immunofluorescence

Absorption

- Ridley, R. K.; Slonka, G. F.; and Leland, S. E., jr., 1977, *J. Parasitol.*, v. 63 (2), 348-356
Cooperia punctata, L₄ and adult stages grown in vitro, utilization of propionic acid, use of propionate by worms would result in depriving ruminant host of some of its necessary glucogenic precursors and could account for specific pathogenic mechanism attendant to heavy infections

Absorption

- Rigillo, N.; et al., 1969, *Minerva Pediat.*, v. 21 (21), 960-965
 giardiasis in children, secondary malabsorption and altered xylose test values return to normal after disappearance of parasite from stool

Absorption

- Ruff, M. D.; and Read, C. P., 1974, *J. Protozool.*, v. 21 (2), 368-373
Trypanosoma equiperdum, amino acid transport

Absorption

- Ruff, M. D.; Witlock, D. R.; and Smith, R. R., 1976, *Exper. Parasitol.*, v. 39 (2), 244-251
 comparison of effects of *Eimeria tenella* and *E. acervulina* infection on methionine absorption by avian intestine: importance of gut region infected; specific kinetic parameters affected; effect of intestinal pH; morphological changes in intestinal mucosa which might account for transport changes

Absorption

- Saowakontha, S., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (1), 37-40
Trichinella spiralis, absorptive functions of intestines of infected rats on low and high protein diets were not impaired either in early or late intestinal phases of infections as tested by D-xylose absorption

Absorption

- Saraya, A. K.; and Tandon, B. N., 1975, *Progr. Drug Research*, v. 19, 108-118
 human hookworm infection, study of associated anemia and intestinal malabsorption

Absorption

- Schaefer, F. W. III; Martin, E.; and Mukkada, A. J., 1974, *J. Protozool.*, v. 21 (4), 592-596
Leishmania tropica promastigotes, glucose transport system

Absorption

- Schaefer, F. W. III; and Mukkada, A. J., 1976, *J. Protozool.*, v. 23 (3), 446-449
Leishmania tropica promastigotes, specificity of glucose transport system

Absorption

- Scotfield, A. M., 1975, *Comp. Biochem. and Physiol.*, v. 52 (4A), 685-689
Nematospiroides dubius, rats, transient malabsorption of amino acids by small intestine during infection

- Absorption**
 Scofield, A. M., 1977, *Internat. J. Parasitol.*, v. 7 (2), 159-165
Nippostrongylus brasiliensis-infected rats, intestinal absorption of hexoses, possible relation to immune reaction
- Absorption**
 Segal, H. E.; et al., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (4), 499-503
Plasmodium falciparum, humans, assessment of gastrointestinal function and quinine absorption, findings suggest minimal distortion of absorptive function of little clinical importance
- Absorption**
 Sherman, I. W.; and Tanigoshi, L., 1974, *J. Protozool.*, v. 21 (4), 603-607
Plasmodium lophurae-infected erythrocytes, enhanced glucose transport
- Absorption**
 Simon, M. W.; and Mukkada, A. J., 1977, *Exper. Parasitol.*, v. 42 (1), 97-105
Leishmania tropica promastigotes, methionine uptake system shows broad specificity and is subject to regulation at the level of carrier activity
- Absorption**
 Simon, M. W.; Rusnak, J. M.; and Mukkada, A. J., 1976, *Exper. Parasitol.*, v. 39 (1), 51-58
Leishmania tropica promastigotes in vitro, sensitivity to toxic effects of bilirubin (loss of viability, decreased sugar and amino acid uptake, increased efflux of intracellular sugars, hexokinase activity, lowered respiration), results suggest irreversible damage to cell membrane, possible culture loss if bilirubin concentration of hemoglobin solution used is too high
- Absorption**
 Singotam, L.; and Dass, C. M. S., 1977, *Indian J. Exper. Biol.*, v. 15 (9), 719-727
Grebneckiella pixellae, scanning electron microscopy of various life cycle stages reveals: epimerite as attachment organ to host gut epithelium, epicytic folds of body wall at various regions of trophozoite, changes in body folds during gamont formation and sexual dimorphism, syzygy, gamete formation, spore structure, possible role of epicytic folds in gregarine movement and absorption of nutrients
- Absorption**
 Starling, J. A., 1975, *Tr. Am. Micr. Soc.*, v. 94 (4), 508-523
Hymenolepis diminuta and *Moniliformis dubius*, tegumental hexose transport, compared to glucose transport of other tapeworms and mucosal brush border of the vertebrate intestine, correlation between mechanisms of membrane transport and biochemical environment of absorptive surfaces
- Absorption**
 Starling, J. A.; and Fisher, F. M., jr., 1975, *J. Parasitol.*, v. 61 (6), 977-990
Moniliformis dubius, females, kinetics and specificity of hexose absorption
- Absorption**
 Surgan, M. H.; and Roberts, L. S., 1976, *J. Parasitol.*, v. 62 (1), 87-93
Hymenolepis diminuta, *H. microstoma*, effect of purified bile salts on absorption of glucose and oleic acid
- Absorption**
 Symons, L. E. A., 1976, *Pathophysiol. Parasit. Infect.*, 11-21
 review of possible importance of malabsorption in pathophysiology of gastrointestinal parasitism, concluded rather than anorexia exacerbated by loss of serum proteins is most important pathophysiological response of host to gastrointestinal infection
- Absorption**
 Tkachuck, R. D.; Weinstein, P. P.; and Mueller, J. F., 1976, *J. Parasitol.*, v. 62 (1), 94-101
Spirometra mansonoides spargana, uptake of vitamin B₁₂, functional groups of B₁₂ analogs affecting uptake; *Hymenolepis diminuta*, no uptake of vitamin B₁₂, none detected in the worm
- Absorption**
 Turk, D. E., 1977, *Poultry Science*, v. 56 (5), 1763 [Abstract]
Eimeria spp., chicks, iron absorption, decreased by some species, increased during recovery period
- Absorption**
 Uglem, G. L., 1976, *Biochim. et Biophys. Acta*, v. 443 (1), 126-136
Hymenolepis diminuta, evidence for sodium ion exchange carrier linked with glucose transport across brush border, proposed model for glucose transport system
- Absorption**
 Uglem, G. L.; and Love, R. D., 1977, *Exper. Parasitol.*, v. 43 (1), 94-99
Hymenolepis diminuta, properties of phlorizin inhibition of glucose transport
- Absorption**
 Uglem, G. L.; and Read, C. P., 1975, *J. Parasitol.*, v. 61 (3), 390-397
Schistosoma mansoni, adults, mechanisms of sugar transport and metabolism, differences in males, females, and pairs
- Absorption**
 Vega Franco, L.; et al., 1975, *Prensa Med. Mexicana*, v. 40 (7-8), 197-201
 intestinal parasites, comparison of D-xylose intestinal absorption in infected children showed that only those with *Giardia lamblia* had statistically different absorption from non-infected children
- Absorption**
 Vega-Franco, L.; et al., 1976, *Bol. Med. Hosp. Inf.*, v. 33 (2), 293-299
Giardia lamblia, d-xylose absorption and growth patterns in infected children before and after tinidazole, comparison with normal controls: Mexico

- Absorption**
Vignola, G.; Mori, P. G.; and Cottafava, F., 1969, *Minerva Pediat.*, v. 21 (33), 1526-1530
mixed giardiasis and Trichocephalus infections in young child resulting in severe malabsorption syndrome, pathology of intestinal mucosa
- Absorption**
Voorheis, H. P., 1977, *Biochem. J.*, v. 164 (1), 15-25
Trypanosoma brucei, changes in kinetic behaviour of threonine transport elicited by variation in hydrogen ion concentration
- Absorption**
Watts, S. D. M., 1977, *Parasitology*, v. 75 (2), xviii [Abstract]
Schistosoma mansoni, effect of 1,7,bis(p-aminophenoxy)heptane (153C51) on glucose transport, schistosomicidal activity apparently not due to this effect
- Absorption**
Wright, S. G.; and Tomkins, A. M., 1977, *Clin. and Exper. Immunol.*, v. 29 (3), 408-412
Giardia lamblia, humans, quantification of lymphocytic infiltrate in jejunal epithelium, increased numbers of intraepithelial lymphocytes in patients with giardiasis and abnormal intestinal absorption compared with both control patients and patients with giardiasis and normal absorption
- Absorption**
Yonders, P. C.; and Dixon, C. F., 1976, *J. Alabama Acad. Sc.*, v. 47 (3), 115 [Abstract]
Obeliscoides cuniculi, domestic rabbit, ⁵⁹Fe absorption in small intestine, higher in blood of infected hosts
- Absorption**
Yvone, P., 1974, *Folia Vet. Latina*, v. 4 (3), 408-425
intestinal coccidiosis (E. acervulina), caecal coccidiosis (E. tenella), comparison of nutritional effect in fowl, E. tenella causing insignificant losses, E. acervulina causing severe disease, interference with absorption
- Acarology**
Steyskal, G. C., 1971, *Acarologia*, v. 12 (4), 639-642
guide to grammar of acarine nomenclature
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Strickland, R. K.; et al., 1976, *Agric. Handb.* (485), U. S. Dept. Agric., 1-122
ticks of veterinary importance
- Accidental parasites.** See Parasites, Accidental.
- Adaptation.** [See also Ecology; Evolution; Genetics; Host-parasite relationships]
- Adaptation**
Ali, M. M., 1975, *Riv. Parassitol.*, Roma, v. 36 (2-3), 223-225
parasitic nematodes, comments on evolution and adaptation, abstract of thesis
- Adaptation**
Andersen, K., 1976, *Fauna, Oslo*, v. 29 (1), 1-20
helminth adaptation to life in vertebrate intestine, cysts, attachment organs, structure of tegument, immune response, site selection, evolution, extensive review
- Adaptation**
Ayala, S. C., 1973, *Am. Midland Naturalist*, v. 89 (2), 266-280
community dynamics of sandfly-borne protozoan infections: central California
- Adaptation**
Bianco, A. E.; and Muller, R. L., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 383 [Demonstration]
Haemaphysalis leachii leachii as vector of Ackertia globulosa for rodent hosts, tick attachment and adaptations in both tick and nematode life cycles which enable tick to serve as vector
- Adaptation**
Breev, K. A.; and Baratov, Sh. B., 1970, *Parazitologia, Leningrad*, v. 4 (3), 241-249
Hypoderma lineatum sinense, incidence and intensity of infection, development in relation to temperature, climatic adaptation, differentiation from typical H. lineatum, yaks: eastern Pamir
- Adaptation**
Brenner, Z.; et al., 1976, *J. Protozool.*, v. 23 (1), 147-150
Trypanosoma cruzi in cell culture, strain-dependent thermosensitivity influencing amastigote-to-trypomastigote differentiation, may result from mutational adaptation
- Adaptation**
Buengener, W., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 309-312
Plasmodium berghei, P. vinckei, P. chabaudi, mice, rats, allopurinol stimulated multiplication of plasmodia and infections caused death more rapidly or in more animals, this effect could result from hypoxanthine concentration being limiting factor for parasite multiplication, in these parasite-host combinations host-purine-dependent parasites would have a selective advantage over non-dependent ones
- Adaptation**
Dobson, C.; and Owen, M. E., 1977, *Internat. J. Parasitol.*, v. 7 (6), 463-466
Nematospiroides dubius, influence of serial passage on infectivity and immunogenicity in mice
- Adaptation**
Duke, B. O. L., 1972, *Zool. J. Linn. Soc.*, London, v. 51, Suppl. 1, 97-107
Loa loa, behavioral aspects of human and simian strains which have contributed to divergent adaptive evolution with 2 separate host-vector complexes that seldom result in parasite interchange

- Adaptation**
 Esch, G. W.; Gibbons, J. W.; and Bourque, J. E., 1975, *Am. Midland Naturalist*, v. 93 (2), 339-353
 analysis of relationship between stress and parasitism
- Adaptation**
 Evans, A. A. F.; and Perry, R. N., 1976, *Organ. Nematodes (Croll)*, 383-424
 survival strategies in nematodes, review: quiescence with special reference to cryptobiosis; diapause (in unhatched larvae; in larvae outside the egg; in adult stages; induction and termination; morphological and behavioral correlates)
- Adaptation**
 Font, W. F.; and Corkum, K. C., 1976, *Am. Midland Naturalist*, v. 96 (2), 473-478
Alloglossidium renale in *Palaemonetes kadiakensis* (antennary gland), annual cycle, seasonal incidence, close adaptation to host life cycle (*A. renale* annual mortality precedes death of its shrimp definitive host): St. James and Head of Island ponds, Louisiana
- Adaptation**
 Furman, D. P.; and Smith, A. W., 1973, *J. Med. Entom.*, v. 10 (4), 415-416
Orthohalarachne diminuta, *O. attenuata*, in vitro development, adaptations of life cycle for endoparasitism in mammals, presence of protonymph and deutonymph stages confirmed
- Adaptation**
 Gillig, C. J. III, 1977, *J. Protozool.*, v. 24 (3), 406-411
Leishmania donovani, adaptation to in vitro cultivation at 37 C
- Adaptation**
 Gillig, C. J.; and Honigberg, B. M., 1973, *J. Protozool.*, v. 20 (4), 504
Leishmania donovani, promastigotes, adaptation to cultivation at 37 C., genetic selection rather than dauermodification appears to be responsible for thermal adaptation
- Adaptation**
 Golvan, Y.-J.; et al., [1976], *Ann. Parasitol.*, v. 50 (5), 1975, 617-628
Schistosoma mansoni in different strains of *Biomphalaria glabrata*, parasite and host fecundity
- Adaptation**
 Haston, W., 1975, *J. Protozool.*, v. 22 (3), 52A [Abstract]
Trypanosoma brucei, substrate utilization by transforming midgut forms, decreased glucose oxidation, increased proline oxidation, suggests that trypanosomes have adapted their metabolism to utilize the most available substrate in their mammalian vs. insect hosts
- Adaptation**
 Hommel, M.; and Miltgen, F., 1973, *J. Protozool.*, v. 20 (4), 527
Trypanosoma blanchardi, *T. rabinowitschae*, adaptation to mice by passage through cultures and then sarcomatous mice, strong cross immunity between *T. musculi* and mouse-adapted strains; adaptation of *T. lewisi* to mice using same method was not possible; this new culture system was used to cultivate *T. brucei*
- Adaptation**
 Irvin, A. D.; et al., 1976, *J. Comp. Path.*, v. 86 (1), 51-57
Theileria parva-infected bovine lymphoid cells grown in mice, immunization of cattle with cells passaged in mice
- Adaptation**
 Lushbaugh, W. B.; McGhee, R. B.; and Singh, S. D., 1976, *J. Protozool.*, v. 23 (1), 127-134
Plasmodium gallinaceum, erythrocytic stages in embryonic and neonate chicks, abnormal morphology and development associated with adaptation to immature host
- Adaptation**
 McGhee, R. B.; Singh, S. D.; and Lushbaugh, W. B., 1977, *Exper. Parasitol.*, v. 43 (1), 220-230
Plasmodium gallinaceum, changing virulence patterns during adaptation from neonate chick to chicken embryos
- Adaptation**
 Mrciak, M.; and Rosicky, B., 1975, *Biologia, Bratislava, s. B, Zool.*, v. 30 (8), 589-597
 parasites of small mammals and birds in high altitude areas, geographical distribution in relation to altitude, geological history, and host distribution, adaptations to alpine conditions including life history adaptations, review: High Tatra Mountains, Slovakia
- Adaptation**
 Musoke, A. J.; and Cox, H. W., 1977, *J. Parasitol.*, v. 63 (3), 464-470
Plasmodium chabaudi, adaptation to rat host, immune responses in rats and in mice to rat strain, resistance to challenge with homologous and heterologous strains and to *Babesia rodhaini*, elaboration of soluble serum antigen in mice infected with rat strain
- Adaptation**
 Nadchatram, M.; and Audy, J. R., 1965, *Med. J. Malaya*, v. 20 (1), 80-81
 life cycle adaptations of *Vatacarus ipoides* recovered from air-sacs of tidal reef snakes (*Laticauda colubrina*): Singapore
- Adaptation**
 Perkatova, V. N., 1975, *Dokl. Vsesoiuz. Akad. Sel'skokhoz. Nauk* (10), 39-40
Gastrothylax crumenifer, morphology and physiology of tegument, intestine and saccus alimentarius, localization of non-specific esterase; adaptations to existence among dense papillae of rumen and glandular structure thereof

- Adaptation**
 Wagner, K. P.; and Krassner, S. M., 1976, *Exper. Parasitol.*, v. 39 (2), 222-233
 Leishmania tarentolae promastigotes, replicating techniques, isolation of stable mutant strains resistant to chloramphenicol, isolation of cell lines stress-adapted to streptomycin and to high culture temperatures, factors influencing resistance, mode of action of chloramphenicol (inhibition of protein synthesis and proline oxidation)
- Adaptation**
 Watertor, J. L.; and Van Landingham, S. B., 1976, *J. Parasitol.*, v. 62 (1), 152-153
 host-induced histochemical variations in Telorchis bonnerensis reared in Ambystoma tigrinum vs. Chelydra serpentina, histochemical resemblance to T. corti when both reared in C. serpentina
- Adaptation**
 Weiss, M. L., 1976, *Exper. Parasitol.*, v. 40 (1), 103-111
 Plasmodium berghei, mouse strain noninfective but highly immunogenic for Meriones unguiculatus was adapted to M. unguiculatus through serial passage of infected blood, antigenic changes during adaptation, loss of infectivity for mice, different antigens apparently responsible for immunogenicity vs. infectivity, vaccination led to production of some protective antibody but also to blocking and enhancing antibody
- Adhesion.** See Attachment.
- Adoptive immunity.** See Immunity, Passive.
- Adrenals.** See Glands, Host; Hormones.
- Afghanistan**
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 geomedical report on Afghanistan, its inhabitants and its diseases
- Africa**
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 epidemiologic survey of human helminths and hemoparasites
 (Schistosoma mansoni; Ascaris lumbricoides; Schistosoma haematobium; Plasmodium falciparum; P. malariae; Dipetalonema perstans; Necator americanus; Strongyloides stercoralis): all from Atiekwa
- Africa**
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 (voies biliaires): Fasciola gigantica; Dicrocoelium hospes
 (rumen): Paramphistomum microbothrium; Cotylophoron cotylophorum; Calicophoron calicophorum; C. raja; C. ijimai; Stephanopharynx compactus; Gigantocotyle symmeri; Bothriophoron bothriophoron; Carmyerius spatiosus; C. gregarius; C. papillatus; C. parvipapillatus
- Africa**
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 possible ecological effects of trypanosomiasis control, increased cattle production leading to overgrazing and possibly to climatic change and drought: Africa
- Africa**
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 geographic distribution of Loa loa in African population south of the Sahara in equatorial rain-forest
- Africa**
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 Wuchereria bancrofti, review of geographic distribution surveys of human lymphatic filariasis in the African continent south of the Sahara
- Africa**
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 extensive review of zoonotic infections of domestic animals of Africa and insect-borne human infections, relationship to public health aspects of black Africans
- Agar diffusion; Agar gel diffusion.** See Immunity, Precipitation.
- Age of host.** [See also Longevity; Survival]
- Age of host**
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 effect of protein level in diet and host age on antibody production, Schistosoma mansoni-infected mice
- Age of host**
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 Schistosoma haematobium, statistics of epidemiologic survey of children from 6 months to 10 years of age for prevalence and morbidity of infections, comparison of 3 geographically different villages in the Giza governorate, Egypt
- Age of host**
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 babesial antibody detected in sera of wild red deer by indirect fluorescent antibody technique, incidence, age and sex of host: Scotland
- Age of host**
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- Age of host
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fecal survey of dogs in suburban area of Santiago, Chile for presence of intestinal parasites
- Age of host
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human toxoplasmosis, epidemiologic survey for prevalence of infection comparing results of complement fixation and Sabin-Feldman dye test: West Berlin
- Age of host
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- Age of host
Al-Salihi, F. L.; Curran, J. P.; and Wang, J. S., 1974, Pediatrics, Am. Acad. Pediat., v. 53 (2), 196-200
survey of nonselected newborn population for presence of Trichomonas vaginalis, clinical review and reports of 3 cases with associated Monilia infections
- Age of host
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massive Trichuris trichiura infections, children, statistical survey, comparative clinical trial with oral and rectal thiabendazole and rectal hexylresorcinol
- Age of host
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- Age of host
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Probopyrus pandalicola, energy flow in parasitized and unparasitized laboratory *Palaeomonetes pugio* population, secondary reproduction, metabolism, ingestion and egestion; temperature, season, host age, sex, and reproductive condition, effect on energetics of host-parasite systems
- Age of host
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Onchocerca volvulus, survey of total populations aged 5 years and older in 16 villages of rain-forest and savanna zones, standard techniques used to assess intensity of infection, clinical manifestations, differences thought to be influenced by hormonal factors, strain pathogenicity, transmission patterns: United Cameroon Republic
- Age of host
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- Age of host
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prevalence survey for microfilaruria and other manifestations of human *Onchocerca volvulus* infection in rural area, correlation with microfilariae in skin snips, age and sex of hosts: Cameroon
- Age of host
Arfaa, F.; and Ghadirian, E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 866-871
Ascaris lumbricoides, statistics of epidemiologic survey and mass therapy using pyrantel pamoate in 6 rural villages in central Iran
- Age of host
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- Age of host
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- Age of host
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Plasmodium colombiense sp. n. in *Anolis aeneus*, host blood pictures, parasitemia, parasite structure and structural variance, infection states, host population structure, epidemiology: western Colombia (Cauca River valley basin)
- Age of host
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coccidiosis, poultry, field cases, diagnosis, pathology, relationship of infection to age and sex of host
- Age of host
Baeva, O. M., 1968, Gel'mint. Zhivot. Tikhogo Okeana (Skriabin), 76-79
degree of helminth infection in different age groups of *Cololabis saira*: region of Kuril'sk and Japan
- Age of host
Baeva, O. M., 1968, Gel'mint. Zhivot. Tikhogo Okeana (Skriabin), 80-88
helminth distribution among age groups of *Pleurogrammus azonus*: Peter the Great Bay, Sea of Japan

Age of host

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Digenea of *Larus canus*, incidence and intensity, age of host, seasonal variation, distribution in alimentary canal, relationship to host habitat, food, and breeding behavior: Norway

Age of host

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Digenea of *Larus canus*, incidence and intensity, seasonality, relationship to host age, sex, weight, and food habits, diagrammatic model of infection pattern: Norway

Age of host

Bakke, T. A., 1972, Norwegian J. Zool., v. 20 (4), 273-277
Reighardia sterna in *Larus canus* (trachea and air sacs), age and sex of host, seasonal variance: Agdenes, Norway

Age of host

Bakke, T. A.; and Barus, V., 1976, Norwegian J. Zool., v. 24 (1), 7-31
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Age of host

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Age of host

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clinical aspects, diagnosis and medical management of trypanosomiasis in children with review of 23 cases: Zambia

Age of host

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Schistosoma mansoni, human, prevalence and morbidity, significantly higher in rural vs. urban areas, no significant difference found in relation to sex, typical age-specific prevalence curve: northeastern Brazil

Age of host

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statistics of prevalence and distribution survey of human *Wuchereria bancrofti* filariasis in East Pakistan, possible sociologic aspects affecting disease transmission

Age of host

Barsanti, J. A.; Kristensen, F.; and Drumheller, F. B., 1977, Am. J. Vet. Research, v. 38 (7), 1055-1058
Dirofilaria immitis, dogs, analysis of serum proteins using agarose electrophoresis, relationship of differences in concentration of protein fractions to differences in age, sex, and infected vs. non-infected dogs

Age of host

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scabies in children and adolescents, etiology, diagnosis, clinical aspects

Age of host

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Gymnophallus fossarum in *Cardium glaucum*, penetration of cercariae and migration, microbiotopes occupied by metacercariae, variation in numbers of metacercariae in the 2 microbiotopes in relation to host size, relation between microbiotope occupied by metacercariae and certain anomalies of host test

Age of host

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Gymnophallus fossarum in *Tapes decussatus* (nat. and exper.) (espace extrapalleal peripherique, espace extrapalleal sous-articulaire), relative importance of 2 microbiotopes, host reactions (encapsulation, tissue degradation), changes in metacercariae, heterogeneity of distribution within microbiotope extrapalleal peripherique, variation in numbers of metacercariae in the 2 microbiotopes in relation to host size, comparison with *Cardium glaucum*: lagune de Beauduc

Age of host

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parasitic and other diseases of *Syncerus caffer*, some pathological findings, age of host: Kruger National Park

Age of host

Baufine-Ducrocq, H.; et al., 1971, Medecine et Malad. Infect., v. 1 (10), 395-402
Trichomonas vaginalis, survey, frequency of vaginal infection in prostitutes: Paris

Age of host

Behnke, J. M., 1976, J. Helminth., v. 50 (3), 197-202
Aspiculuris tetraptera in wild *Mus musculus* of different ages, prevalence and level of infection decreased in older animals, either innate or acquired resistance could account for observations

Age of host

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malaria, blood film and spleen examination results in relation to age, chloroquine and cycloguanil sensitivity of *Plasmodium falciparum*; *Schistosoma haematobium*, prevalence and intensity in relation to age and sex: Malumfashi District, North Central State of Nigeria

Age of host

Benitez-Usher, C.; et al., 1977, Vet. Parasitol., v. 3 (4), 327-342
Haemonchus contortus, Scottish Blackface lambs, immunization with gamma-irradiated larvae, roles of host age, size of immunizing dose, previous exposure to infection, and anthelmintic (thiabendazole) therapy

- Age of host
Benitez-Usher, C.; Armour, J.; and Urquhart, G. M., 1976, *Vet. Parasitol.*, v. 2 (2), 209-222
Dictyocaulus viviparus, young calves, efficacy of immunization with Dictol below commercial recommendation of 8 weeks of age, concluded that it may be practical to vaccinate milk-fed and suckling calves from 3-4 weeks of age
- Age of host
Bennett, G. F.; et al., 1974, *J. Wildlife Dis.*, v. 10 (4), 442-451
survey, prevalence of hematozoa in anatids, infection rate increases with host age, seasonal distribution
- Age of host
Berengo, A.; Pampiglione, S.; and de Lalla, F., 1974, *Riv. Parassitol.*, Roma, v. 35 (2), 81-86
toxoplasmosis, Babinga pygmies, dye test survey, prevalence slightly higher in men and markedly higher in older age groups, ingestion of under-done meat most probable source of infection: southern Central African Republic and eastern Cameroon
- Age of host
Bettini, S.; Pampiglione, S.; and Maroli, M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (1), 73-79
leishmaniasis, human, preliminary epidemiological survey, validity of leishmanin skin test confirmed, positivity rate according to age and sex: Tuscany region of Italy
- Age of host
Beverley, J. K. A.; et al., 1976, *J. Hyg., Cambridge*, v. 76 (2), 215-228
Toxoplasma gondii, human toxoplasmic lymphadenopathy, age-sex relationships, British patients compared with other European cases
- Age of host
Bezubik, B., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 1-9
Strongyloides papillosus, rabbits, human gamma globulin beneficial as expressed by host weight, parasite egg production, and blood values; infection more severe in younger hosts
- Age of host
Bisseru, B.; and Aziz bin Ahmad, A., 1970, *Med. J. Malaya*, v. 25 (1), 29-33
survey of intestinal parasites infecting Malay, Chinese and Indian schoolchildren and coordination with their various ethnic and social practices: Malaya
- Age of host
Black, R. E.; et al., 1977, *Pediatrics, Am. Acad. Pediat.*, v. 60 (4), 486-491
Giardia lamblia, severe diarrhea affecting 54% of children in day care center, suggestion of fecal-oral transmission from child to child and from infected children to their families, also possibility of infected fomites, epidemiologic survey: Georgia
- Age of host
Boertje, S. B., 1976, *Proc. Louisiana Acad. Sc.*, v. 39, 23-27
Poecilancistrum caryophyllum, incidence in Cynoscion nebulosus (muscle), related to age of host, not sex; not infective to cats: Louisiana coastal waters
- Age of host
Bognar, I.; and Bodanszky, H., 1975, *Orvosi Hetilap*, v. 116 (7), 367-369
scabies in infants, clinical symptoms and epidemiology as differentiated from infections in adults: Hungary
- Age of host
Bois, E.; et al., 1976, *Medecine et Malad. Infect.*, v. 6 (1), 4-11
Entamoeba histolytica, malaria, epidemiologic survey of Amerindian tribes in French Guiana, widespread infections increasing with age
- Age of host
Bommartini, F.; and Soprana, M., 1971, *Minerva Gastroenterol.*, v. 17 (1), 45-51
Giardia lamblia, 85-year old man living in home for aged, presenting symptoms of biliary colic, clinical management, chloroquine: Verona, Italy
- Age of host
Borda, C. E., 1973, *Bol. Chileno Parasitol.*, v. 28 (1-2), 19-23
Necator americanus, epidemiologic survey of island families, favorable conditions of soil in area favor continued development: San Mateo Island; Argentina
- Age of host
Borroni, I.; and Grimaldi, E., 1974, *Riv. Parassitol.*, v. 35 (4), 261-276
Diphyllobothrium latum, ecology of plerocercoid infection in fish, incidence and intensity, interplay of various factors (host species, host size (age), mechanism of infection (eating copepods vs. eating other fish), parasite size, muscular vs. visceral localization, site on lake in relation to human concentration): Lago Maggiore
- Age of host
Botero, D., 1976, *Clin. Pharm. and Therap.*, v. 19 (5), pt. 2, 630-637
review of common human intestinal parasites, methodology and requirements for clinical trials of new antiparasitic drugs
- Age of host
Botros, B. A. M.; Moch, R. W.; and Barsoum, I. S., 1975, *Am. J. Vet. Research*, v. 36 (3), 293-296
Babesia gibsoni, splenectomized and nonsplenectomized dogs (exper.), inoculation with fresh and preserved blood, prepatent period, clinical signs, duration of parasitemia, gross pathologic changes, clinicopathologic changes, histopathologic features, relationship of age of dogs to pathogenicity of infection

Age of host

Bowry, T. S.; and Cameron, H. M., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 439-443
schistosomiasis, amoebiasis, causes of liver pathology in early childhood in Kenya

Age of host

Bozdech, V., 1973, Paediat. u. Grenzgeb., v. 12 (5), 327-335
epidemiologic survey of parasitic infections in children with comparisons of statistics from Kaduna, Nigeria and Accra, Ghana

Age of host

Bradley, A. K., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (3), 225-229
Onchocerca volvulus, relationship of prevalence of onchocerciasis and resulting blindness to abandonment of native villages, statistical survey of various geographic localities: Middle Hawal Valley, Nigeria

Age of host

Bradley, D. J.; and McCullough, F. S., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 491-500
Schistosoma haematobium, human, epidemiological model shows good agreement with actual community egg output patterns, provides additional evidence for occurrence of concomitant immunity

Age of host

Bradley, R. E., 1976, J. Am. Vet. Med. Ass., v. 169 (3), 311-316
Dirofilaria immitis, dogs (nat. and exper.), thiacetarsamide sodium to destroy adult worms, levamisole resinate 6 weeks later at dosage of 11 mg/kg (but not 5.5 mg/kg) was effective as a microfilaricide, 2 cases of levamisole toxicosis in presence of adult worms; incidental observation on greater susceptibility of older dogs to infection

Age of host

Bray, R. S.; and Harris, W. G., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 401-407
Entamoeba histolytica, extensive epidemiologic survey of selected native villages revealed a comparatively high incidence of human infection: The Gambia, West Africa

Age of host

Breed, G. M.; and Olson, R. E., 1977, J. Invert. Path., v. 30 (3), 387-405
Pleistophora crangoni n. sp. in Crangon spp., prevalence and intensity in relation to season and host size, parasitic castration of females, shift in host sex ratio toward females, unsuccessful laboratory transmission experiments, spread of infection through shrimp, infected shrimp succumbed to low oxygen stress before uninfected shrimp, histopathology

Age of host

Bremner, K. C.; Keith, R. K.; and Winks, R., 1976, Research Vet. Sc., v. 20 (3), 350-351
Oesophagostomum radiatum, castrated male calves, resistance to initial infection increases with age

Age of host

Brinkmann, U. K., 1977, Tropenmed. u. Parasitol., v. 28 (1), 71-76
Wuchereria bancrofti, epidemiologic survey comparing 5 areas demonstrated that bancroftian filariasis is major health problem in rural coastal Liberia

Age of host

Brown, R. C.; and Girardeau, M. H. F., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 215-219
Strongyloides fuelleborni, Necator americanus, Ancylostoma duodenale, prevalence survey and study of possible transmammmary passage, presence of Strongyloides sp. larvae in milk of one nursing mother suggests that S. fuelleborni may be transmitted via milk in humans: Bulape, Zaire

Age of host

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 21-31
serum immunoglobulin levels in five villages compared, comparative studies of IgG, IgA, IgM, and IgD levels between Onchocerca volvulus patients with and without microfilaruria, different age and sex patterns, effect of infection intensity, IgE and combined infection with Schistosoma mansoni: Chad

Age of host

Bull, F.; Oyarce, R.; and Stehr, I., 1967, Bol. Chileno Parasitol., v. 22 (1), 10-15
prevalence and epidemiologic survey of human intestinal parasites in slum areas of Concepcion Province, Chile

Age of host

Bwangamoi, O.; and Isyagi, A. O., 1973, Bull. Epizoot. Dis. Africa, v. 21 (1), 33-37
filariasis, dogs, incidence survey, morbidity rate per breed, age, and sex of host: Uganda

Age of host

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Crepidostomum metoecus in Salmo trutta, incidence, annual seasonality, increase in infection in younger fish, spawning fish showed higher infection in females than males suggesting role of reproductive hormones in host resistance
Salmo trutta (pyloric caeca, intestine)
Cloeon simile
Siphonurus lacustris
all from Loch of Strathbeg, N.E. Scotland

Age of host

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Schistosoma japonicum, evaluation of blood circumoval precipitin test (filter paper) for diagnostic field surveys, comparison with use of stool formalin-ether technique: Leyte, Philippines

- Age of host
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human ascariasis, statistical epidemiologic survey and development of working model for control and/or eradication of infection using a rural community in the Philippines
- Age of host
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Plasmodium berghei, rats, adoptive immunity transferred by 2×10^7 or 2×10^6 but not 2×10^6 immune spleen cells, spleen cells kept at 47 C for 45 min were no longer able to transfer protection; capacity to transfer adoptive immunity not found in spleen cells from unexposed adult rats capable of age immunity, but found in spleen cells from rats that had suffered very transient parasitemia
- Age of host
Camerlynck, P.; Alaoui, A.; and Benmansour, N. 1974, Maroc Med. (585), v. 54, 641-649
Schistosoma haematobium, epidemiological survey, public health importance, intermediate hosts, increased transmission with improved irrigation systems: Province Beni-Mellal, Maroc
- Age of host
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Schistosoma mansoni, attempted correlation of immunoglobulin levels, antibodies, and delayed hypersensitivity reactions in infected patients living in defined endemic area: Bahia state, Brazil
- Age of host
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Trichomonas vaginalis as cause of acute vulvovaginitis in children and young girls, clinical aspects, metronidazole
- Age of host
Carcassonne, M.; et al., 1973, Progr. Pediat. Surg., v. 5, 1-35
echinococcosis in children, extensive review of cyst localizations, clinical aspects, pathology and surgical management
- Age of host
Carlier, Y.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (6, pt. 1), 949-954
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- Age of host
Carmichael, I. H.; and Hobday, E., 1975, Onderstepoort J. Vet. Research, v. 42 (2), 55-62
Anaplasma marginale, incidence in Syncerus caffer (blood), level of parasitemia in different age groups: Ngamiland, Botswana
- Age of host
Carrie, J., 1970, Medecine Afrique Noire, v. 17 (7), 531-540
Schistosoma haematobium, S. mansoni, epidemiologic survey: Ivory Coast
- Age of host
Casto, S. D., 1975, J. Med. Entom., v. 12 (1), 23-27
Syringophiloidus minor, infestation rates in different age categories of Passer domesticus, infestation patterns of different feathers (primaries, primary coverts, secondaries, rectrices) in juvenal and nuptial plumage, selective advantage of infestation patterns and probable source of dispersants which colonize nuptial feathers during post-juvenal molt: Lubbock, Texas
- Age of host
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prevalence survey of helminths of Octodon degus, seasonal variations, age and sex of hosts: Chile
- Age of host
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- Age of host
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Fasciola hepatica, incidence in cattle (buffalo, yellow cattle, dairy cow), increase with age: southern Taiwan
- Age of host
Cheever, A. W.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 702-716
Schistosoma mansoni, S. haematobium, statistics and statistical methods of quantitative parasitological autopsy survey; comparison of statistics of S. mansoni with those of previous survey in Brazil: Egypt
- Age of host
Chomicz, L., 1969, Acta Parasitol. Polon., v. 17 (1-19), 47-54
Strongyloides papillosus, immature and mature rabbits, blood picture, age and sex resistance
- Age of host
Christensson, D.; and Reh binder, C., 1975, Nord. Vet.-Med., v. 27 (10), 496-498
gastrointestinal parasites of reindeer calves, none found in first month of life, increasing infection with age: Norrbotten

- Age of host
Ciordia, H.; et al., 1977, Am. J. Vet. Research, v. 38 (9), 1335-1339
gastrointestinal parasitism of cattle on fescue pastures fertilized with broiler litter vs. NH_4NO_3 , prevalence, yearly and seasonal variation; parasite burden lower in calves raised on broiler litter-fertilized pastures (where available forage was greater), no significant differences in adult cows nor in calf weight gains
- Age of host
Clark, T. B.; and Brandl, D. G., 1976, J. Invert. Path., v. 28 (3), 341-349
Tetrahyemenina infection of *Aedes sierrensis* larvae (nat. and exper.), melanized spots on cuticle were sites of invasion or attempted invasion, invasion sites were capped by hemispherical membranes or cysts vacated by invading ciliates, factors such as host activity, host age, and cuticle thickness limited successful infection: near Kings River, Fresno County, California
- Age of host
Clifford, C. M.; Flux, J. E. C.; and Hoogstraal, H., 1976, J. Med. Entom., v. 13 (1), 40-47
Ixodidae on *Lepus*, seasonal and regional abundance, age and sex of host: Kenya; Uganda
- Age of host
Cline, B. L.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 109-117
Schistosoma mansoni in humans, population-based morbidity study of small rural community, demonstration of clear association between infection and disease in such a population, prophylactic and mass therapy recommendations: Puerto Rico
- Age of host
Cloutman, D. G.; and Becker, D. A., 1977, J. Parasitol., v. 63 (2), 372-376
Ergasilus centrarchidarum on *Micropterus salmoides* and *M. punctulatus*, some ecological aspects: host specificity; abundance related to host age and sex; seasonal abundance and egg production, optimum temperatures; no evidence of antagonism with other concomitant species of gill parasites: Lake Fort Smith, Crawford County, Arkansas
- Age of host
Coadwell, W. J.; and Ward, P. F. V., 1977, Parasitology, v. 74 (2), 121-132
Haemonchus contortus, sheep (exper.), suggested that cyclic change in parasite growth pattern and arrested development is controlled by seasonal variation in concentration of substance(s) in host blood, sex of host and duration of infection had no effect on parasite length, age of host did relate to parasite length but relationship may have been an artifact
- Age of host
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helminths of cotton rat, seasonal variation, host size, higher incidence in males, no significant difference in number or kind of parasite in pregnant females
Sigmodon hispidus komareki: Greenville, Pitt County, North Carolina
- Age of host
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11 cercariae found in *Littorina saxatilis* (hepatopancreas), host age and sex, mixed infections, parasitic castration: region de Roscoff (Finistere)
- Age of host
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clinical trials using hycanthone to treat *Schistosoma mansoni*-infected patients, standard and 4 lower dosages used in attempt to establish acceptable levels without toxic reactions, differences in cure rate by age groups: St. Lucia, West Indies
- Age of host
Copeman, R.; Pashen, D.; and Burger, G., 1975, Med. J. Australia, v. 1, suppl. 2, 8-13
association of common intestinal parasites to growth, nutrition and living situation of Aboriginal children: Cunnamulla, Western Queensland
- Age of host
Cottrell, B. J., 1977, J. Fish Biol., v. 11 (1), 35-47
Trypanosoma platessae in *Pleuronectes platessa* (blood) (nat. and exper.), brief re-description, age of host, seasonal variation may be related to change in ambient temperatures and host immunity levels, host specificity: Looe Bay
- Age of host
Courtney, C. H.; and Forrester, D. J., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 89-93
helminths, *Pelecanus occidentalis*, prevalence and intensity, age of host
- Age of host
Crandall, R. B., 1975, J. Parasitol., v. 61 (3), 566-567
Trichinella spiralis, C57B1/6J mice, decreased resistance with age, prior infection prevented increased susceptibility of aged mice
- Age of host
Cross, J. H.; et al., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (1), 52-60
survey of human intestinal and blood parasites and seroepidemiology of amoebiasis: Kalimantan Province, Indonesia

- Age of host
Cross, J. H.; et al., 1976, J. Trop. Med. and Hyg., v. 79 (6), 123-131
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- Age of host
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- Age of host
Cross, J. H.; Irving, G. S.; and Gunawan, S., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (4), 467-471
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- Age of host
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Myobia musculi, mouse breeding colony, dermatitis characterized by intense pruritus leading to self-mutilation and death, pathogenicity varies according to sex, age, mating ratios, sensitivity and strain of mice, dichlorvos + ronnel, good results
- Age of host
Cutting, J. W., 1975, Bull. Pan Am. Health Organ., v. 9 (1), 13-18
survey of human intestinal parasites, influence of increased highway construction and environmental changes in area: Yaviza, Panama
- Age of host
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Trichinella spiralis larvae, mice given gold-thioglucose and vitamin A, oxygen uptake by diaphragm muscles, influence of host sex and age
- Age of host
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cutaneous larva migrans, preliminary epidemiologic survey shows high prevalence in children especially during rainy seasons, etiology unknown but high incidence of *Strongyloides* spp. in soil samples, suggested control measures: Northern Kordofan, Sudan
- Age of host
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- Age of host
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helminths, *Stenella graffmani*, S. cf. S. *longirostris*, incidence related to age of host
- Age of host
Dancescu, P., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 162-163
Strongyloides stercoralis in humans, observations on worm burden, clinical manifestations and infection duration as affected by host age: Romania
- Age of host
Davidson, W. R.; and Calpin, J. P., 1976, J. Wildlife Dis., v. 12 (1), 72-76
Hepatozoon griseisciuri, location and pathogenicity of schizogonic stages, age and sex of host (gray squirrel), seasonal distribution, pathology: southeastern United States
- Age of host
Davies, A. J.; and Johnston, M. R. L., 1976, J. Protozool., v. 23 (2), 315-320
Haemogregarina bigemina in *Blennius pholis*, incidence in relation to length of host, structure and development, no evidence for leech *Oceanobdella blennii* as vector, circumstantial evidence for *Gnathia maxillaris* as vector: Wales
- Age of host
Dennis, D. T.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 797-802
Timor filariasis, human, epidemiology, clinical manifestations, age and sex stratification of microfilariaemia and symptoms: Ae Bubu, southeastern Flores, Southeast Indonesia
- Age of host
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Toxoplasma gondii, survey of women of fertile age with Sabin-Feldman dye test, no difference in incidence between pregnant and non-pregnant women, higher number of positive reactions among women aged 30-40 than those aged 18-29: Zagreb
- Age of host
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- Age of host
De Rosa, F.; et al., 1972, Parassitologia, v. 14 (2-3), 293-302
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- Age of host
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Plasmodium vivax malaria in 3-week-old twins, mother treated for malaria prior to and during pregnancy but means of transmission to infants uncertain, successfully treated with chloroquine: Toronto, Canada (mother immigrated from India)

- Age of host
Dickinson, A.B.; and Threlfall, W., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 111-116
helminths of *Fundulus heteroclitus*, seasonal variations, preferred site of attachment, host size and sex: Newfoundland
- Age of host
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ectoparasites, pigs, incidence higher in younger pigs and during rainy seasons: Ibadan and Eruwa, Western Nigeria
- Age of host
Dobsinsky, O., 1974, Vet. Med., Praha, v. 47, v. 19 (5), 255-263
polyparasitism by helminths in cattle, incidence, population dynamics, seasonal distribution: Cuba
- Age of host
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epidemiologic survey of human helminths and hemoparasites
(*Schistosoma mansoni*; *Ascaris lumbricoides*; *Schistosoma haematobium*; *Plasmodium falciparum*; *P. malariae*; *Dipetalonema perstans*; *Necator americanus*; *Strongyloides stercoralis*): all from Atiekwa
- Age of host
Dronen, N. O., jr., 1977, Proc. Helminth. Soc. Washington, v. 44 (1), 68-72
Haematolechus breviplexus, *H. coloradensis*, incidence and intensity in frogs, size (age), feeding preferences, and sex of hosts
- Age of host
Dubey, J. P.; Hoover, E. A.; and Walls, K. W., 1977, J. Protozool., v. 24 (1), 184-186
Toxoplasma gondii, cats, effect of host age and sex on oocyst shedding, parasite multiplication in tissues, and acquisition of immunity
- Age of host
Dumon, H.; and Quilici, M., 1976, Compt. Rend. Soc. Biol., Paris, v. 170 (3), 642-645
Schistosoma mansoni, *Arvicanthis niloticus* suitable laboratory hosts, susceptibility best before age of two months
- Age of host
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statistical review of common infectious diseases in Australia including human helminthiasis and *Trichomonas*
- Age of host
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Pneumocystis carinii interstitial plasma cell pneumonia in premature infants whose passive immunity due to maternally transferred antibodies has lost its effectiveness before infant's humoral immune systems have reached maturity, statistical observations from Shiraz Orphanage in Shiraz, Iran
- Age of host
Dyk, V.; and Chroust, K., 1974, Acta Vet. Brno, v. 43 (1), 65-77
parasite survey, roe deer, incidence rate in two ecologically different regions, relationship to host age, preventive measures: Czechoslovakia
- Age of host
Dyk, V.; and Chroust, K., 1974, Acta Vet. Brno, v. 43 (2), 123-131
helminths and coccidians of *Ovis ammon musimon* and *Capreolus capreolus*, intensity variation with age of host, lack of evidence for parasite exchange between mouflons and roe deer: School Forest Enterprise, University of Agriculture Brno, Krtiny
- Age of host
Dyk, V.; and Chroust, K., 1975, Veterinarstvi, v. 25 (7), 315-317
helminths, incidence by age of host, problem in mouflon husbandry: Brno oblast
- Age of host
Dzhabbarov, D. G., 1975, Izvest. Akad. Nauk Azerbaidzhan. SSR, s. Biol. Nauk (4), 90-92
Protostrongylus, sheep, seasonal and age dynamics of infection: Lesser Caucasus
- Age of host
El Alamy, M. A.; and Cline, B. L., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 470-472
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- Age of host
Elkins, C. A.; and Corkum, K. C., 1976, J. Wildlife Dis., v. 12 (2), 208-214
Crepidostomum isostomum and *Phyllodistomum pearsei*, growth dynamics (growth phases categorized by development and maturation of reproductive system) and seasonal prevalence, age of host and prevalence of infection
Aphredoderus sayanus: Whisky Bay, west of Intercoastal Canal, West Baton Rouge Parish, Louisiana
- Age of host
Enders, B.; et al., 1974, Tropenmed. u. Parasitol., v. 25 (4), pp. 395-400
Schistosoma mansoni, infection pattern in *Arvicanthus niloticus*, high cercarial exposures, route of infection, host age and sex, effect on infection rate, comparison with hamster and mouse
- Age of host
Esch, G. W.; Johnson, W. C.; and Coggins, J. R., 1975, Proc. Oklahoma Acad. Sc., v. 55, 122-127
Proteocephalus ambloplitis population dynamics, smallmouth bass (*Micropterus dolomieu*), lake temperature profile and infection rates, host hormones as possible stimulus for parenteric plerocercoid migration; suggested absence of competitive interaction between *P. ambloplitis* and *Leptorhynchoides thecatus*, densities of acanthocephalans and tapeworms and number of pyloric ceca present suggested potential space available for attachment not fully exploited: Gull Lake, Kalamazoo County, Michigan

- Age of host
Eure, H., 1976, Parasitology, v. 73 (3), 355-370
Neoechinorhynchus cylindratus in Micropterus salmoides, seasonal periodicity (attempt to determine effects of water temperature, seasonally related host feeding habits, availability of infected intermediate hosts, host's sex and age, host location within reservoir), attempted analyses of parasite recruitment rate, maturation cycle, and sex ratio: heated reservoir (Par Pond), Energy Research and Development Administration's Savannah River Plant, Aiken, South Carolina
- Age of host
Evans, N. A., 1977, J. Helminthol., v. 51 (3), 189-196
Sphaerostoma bramae in Rutilus rutilus, seasonal occurrence and cycle of maturation, variation in occurrence with age and sex of host, distribution within host population: Worcester-Birmingham canal
- Age of host
Fallon, M. E.; and Wallace, D. C., 1977, Tr. Am. Fish. Soc., v. 106 (2), 189-191
Phyllodistomum undulans, incidence in Cottus bairdi (urinary bladder), host sex and time of year, correlation between fish length and number of parasites: Fleming Creek, Washtenaw County, Michigan
- Age of host
Farhang-Azad, A., 1977, J. Parasitol., v. 63 (1), 117-122
Capillaria hepatica in Rattus norvegicus, prevalence, intensity, aspects of rat population ecology and environmental factors which relate to parasite transmission and maintenance: Baltimore Zoo, Maryland
- Age of host
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epidemiologic study of human microfilaruria in Guatemala, its frequency of occurrence and association with microfilariae in skin and its relationship to presence of subcutaneous nodules
- Age of host
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trypanorhynchid cestode infections of shrimp, incidence and intensity, host sex and size: Biscayne Bay, Florida
- Age of host
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Vampirolepis nana, mathematical expression of parasite growth as function of population density: development in mice infected with 8, 24, 80, or 240 eggs; development in mice of various inbred strains; development in relation to host sex and age and duration of infection; development from different pools of eggs
- Age of host
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autopsy and surgical findings of pathology resulting from human schistosomiasis, possible relationships with bladder cancer: Zambia
- Age of host
Foreyt, W. J.; Samuel, W. M.; and Todd, A. C., 1977, J. Parasitol., v. 63 (6), 1050-1052
Fascioloides magna in Odocoileus virginianus, prevalence, flukes were paired in 256 of 301 fibrous hepatic capsules, prevalence of immature flukes with an average of one immature per infected liver was similar in all host age classes and suggests a relationship between fluke pairing and maturation: southern Texas
- Age of host
Forrester, D. J.; et al., 1974, J. Protozool., v. 21 (4), 494-497
Haemoproteus meleagridis, Leucocytozoon smithi, prevalence in Meleagris gallopavo: Florida
- Age of host
Franco Ramirez, G.; Perez Norzagaray, J.; and de Saade, M. T., 1970, Pediatria, Bogota, v. 11 (4), 379-384
amoebiasis in nursing infants causing acute diarrhea, established as clinically distinct form from that of adults, diagnosis, pathology, clinical aspects: Colombia
- Age of host
Franti, C. E.; et al., 1976, J. Am. Vet. Med. Ass., v. 169 (9), 901-906
Toxoplasma gondii, indirect hemagglutination test to determine prevalence in domestic and wild animals; epizootiologic factors (presence of cats, feeding habits of potential host, age and longevity of host, species and population densities of animals, and geographic and climatic factors): northern California
- Age of host
Frentzel-Beyme, R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (3), 339-357
Onchocerca volvulus, human, epidemiological survey, parasitological and clinical findings, age and sex specific prevalence rates, relation to rate of blindness: Bong Range, Liberia
- Age of host
Frentzel-Beyme, R. R., 1975, Tropenmed. und Parasitol., v. 26 (4), 469-488
Onchocerca volvulus, epidemiologic survey of inhabitants of 121 communities over 3-year period for incidence and risk of blindness associated with onchocerciasis infection, importance as public health problem, results show 50% increased risk associated with exposure to parasites: Liberia
- Age of host
Frentzel-Beyme, R., 1975, Tropenmed. u. Parasitol., v. 26 (1), 70-87
Onchocerca volvulus, extensive incidence survey showing geographic patterns, age and sex differences in infected population of Liberia
- Age of host
Fribourg-Blanc, A.; Bois, E.; and Feingold, J., 1975, Medecine et Malad. Infect., v. 5 (10), 502-507
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Age of host

Fuglsang, H.; Anderson, J.; and Marshall, T. F. de C., 1976, Tropenmed. u. Parasitol., v. 27 (3), 355-364

Onchocerca volvulus in humans, comparative survey of natives of rain-forest and savannah areas for presence of head nodules containing adult worms, possible associations between presence of nodules and ocular onchocerciasis: Cameroon

Age of host

Fuller, G. K.; et al., 1976, Ann. Trop. Med. and Parasitol., v. 70 (2), 147-163

Leishmania donovani, human, epidemiologic skin test survey, endemic area, correlations with age, sex, occupation, parasite pathogenicity and host resistance: northwestern Ethiopia

Age of host

Furfaro, M.; Ferro, P.; and Maragliano, G., 1973, Minerva Ginec., v. 25 (3), 160-164

human *Trichomonas vaginalis*, mixed vaginal infections with *Monilia*, statistical survey, highest incidence during pregnancy with low incidence prior to puberty and after menopause

Age of host

Gall, Z.; and Hraste, J., 1969, Medicina, Rijeka, v. 6 (2), 157-163

survey of fauna of human oral cavity, *Entamoeba gingivalis* and *Trichomonas elongata* discovered mostly in presence of tooth decay and alkaline reactions: Rijeka, Yugoslavia

Age of host

Gardner, I. D.; and Remington, J. S., 1977, Infect. and Immun., v. 16 (2), 593-598

Toxoplasma gondii, mice, age-related decline in resistance to infection, possible role of serum factors and spleen cells in altered resistance of older mice

Age of host

Gemmell, M. A., 1976, Research Vet. Sc., v. 21 (2), 223-226

Taenia hydatigena, lambs on contaminated pasture, modification of transmission pattern under 5 weeks of age due to change from sucking to grazing behavior and/or immunity passively transferred via colostrum

Age of host

George, E.; Harrison, E. J.; and Hadley, W. F., 1977, Tr. Am. Fish. Soc., v. 106 (5), 476-480

Myxobolus dentium in *Esox masquinongy* (cysts in palatine and vomerine teeth), incidence of infection, age of host, seasonal distribution: upper Niagara River

Age of host

George, R. R.; and Bolen, E. G., 1975, J. Wildlife Dis., v. 11 (1), 17-22

endoparasites of *Dendrocygna autumnalis*, prevalence higher in juveniles, pathology: Nueces County, southern Texas

Age of host

Georgi, J. R.; et al., 1976, Cornell Vet., v. 66 (3), 309-323

Filaroides hirthei, life history in beagles, occurrence as function of age, intermediate or alternate definitive hosts not found, levamisole not effective: commercial breeding establishment, North Rose, Wayne County, New York

Age of host

Ghadirian, E.; et al., 1976, Canad. J. Pub. Health, v. 67 (6), 495-498

human toxocariasis, prevalence survey of *Toxocara* spp. and other helminth ova in dogs and soil from city parks, larvae survival over winter months results in continuing contamination of soil and increasing public health problem: Montreal

Age of host

Giannini, M. S., 1974, J. Protozool., v. 21 (4), 521-527

Leishmania donovani, promastigote-initiated infection in *Mesocricetus auratus*, infectivity in relation to host age at time of inoculation, growth phase of promastigotes at harvest, and frequency of subculture

Age of host

Giboda, M.; Hoffman, F.; and Rimar, P., 1971, Ceskoslov. Pediat., v. 26 (2), 88-89

intestinal protozoal infections in children aged 1-15 years, clinical trials with metronidazole, results and parasites eliminated varied with age and parasite: Kosice, Czechoslovakia

Age of host

Gibson, T. E.; and Parfitt, J. W., 1972, Research Vet. Sc., v. 13 (6), 529-535

Trichostrongylus colubriformis, lambs, increased ability to develop resistance with increasing age, importance of grazing management designed to reduce hazard of infection for young animals

Age of host

Gilbert, F. F., 1973, J. Wildlife Dis., v. 9 (2), 136-143

Parelaphostrongylus tenuis, prevalence in *Odocoileus virginianus* males vs. females, fawns vs. adult deer, areas of high vs. low deer density, localization within cranial cavity, implications for transmission: Maine

Age of host

Gilman, R. H.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (5), 663-666

Entamoeba histolytica, seroepidemiologic survey in western Malaysian populations, role of age, family contact, jungle isolation and ethnic groups as etiologic factors: Malaysia

Age of host

Glebezdin, V. S., 1975, Izvest. Akad. Nauk Turkmen. SSR, s. Biol. Nauk (5), 76-80

coccidiosis, sheep, infection rates, host age, season: Turkmenistan

Age of host

Gonzalez, M. A., 1977, *Gac. Vet.*, Buenos Aires (322), v. 39, 389-393
Oestrus ovis, sheep, symptoms of myiasis, localization of lesions, total numbers and size distribution of larvae collected, seasonal distribution, host age: packing houses, prov. Corrientes, dept. Mercedes, Argentina

Age of host

Gothe, R.; and Imhoff, N., 1975, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 88 (22), 431-436
 arthropods, incidence in carrier pigeons, variation with host age: Germany

Age of host

Graham, J. M., 1975, *J. Parasitol.*, v. 61 (3), 513-516
Dirofilaria immitis, adult heartworms found in 11 of 133 *Canis latrans*, host age and sex, discussion as reservoirs: Kansas; Colorado

Age of host

Gravelly, S. M.; Hamburger, J.; and Kreier, J. P., 1976, *Infect. and Immun.*, v. 14 (1), 178-183
Plasmodium berghei, young vs. adult rats, T and B cell population changes in relation to mechanism of age-related immunity

Age of host

Greenwood, B. M.; and Greenwood, A. M., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 581-585
Plasmodium berghei yoelii-infected NZB and B/W hybrid mice, adult mice more susceptible to infection than young mice of same strains, probably due to defective cell-mediated immunity in adults

Age of host

Greiner, E. C., 1975, *J. Wildlife Dis.*, v. 11 (2), 150-156
Haemoproteus in *Zenaida macroura*, prevalence with respect to year, season, host age; no correlation between parent and nestling infections; collection of potential vectors (*Culicidae* and *Hippoboscidae*): Lancaster County, Nebraska

Age of host

Gundelfinger, B. F.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 393-396
 statistics of survey for prevalence of human *Plasmodium* spp. and response of *Plasmodium falciparum* and *P. vivax* to standard dose of chloroquine; first record of *P. ovale* reported in Timor, Indonesia

Age of host

Harman, D. M.; and Chapman, J. A., 1977, *Proc. Pennsylvania Acad. Sc.*, v. 51 (1), 40-42
Cecidopsylla simplex, *Odontosyllus multispinosus*, *Ixodes dentatus*, and *Haemaphysalis leporispalustris* on *Sylvilagus transitionalis*, seasonal distribution, sex and age of host: Tucker County, West Virginia

Age of host

Harmsen, R., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 364-373
Trypanosoma brucei, low survival rate in *Glossina pallidipes* interpreted as in part result of establishment barrier which is less active in young vs. older flies, peritrophic membrane appears unlikely to be establishment barrier, postulated adjustment period for trypanosomes in flies supported by evidence on temperature sensitivity of parasite enzymes

Age of host

Hayes, H. M.; and Priester, W. A., 1973, *J. Small Animal Practice*, v. 14 (12), 797-804
Haemobartonella felis and/or *Eperythrozoon felis*, feline infectious anaemia, relative risk according to age, sex and breed of cats, prior disease, seasonal occurrence, mortality, pattern of risk suggests horizontal transmission probably by direct contact

Age of host

Hazen, T. C.; and Esch, G. W., 1977, *Am. Midland Nat.*, v. 98 (1), 213-219
Crepidostomum cooperi and *Plagioporus* sp. in *Hyaella azteca*, relationship of parasite density to host age, water temperature, and host densities: Gull Lake, Kalamazoo Co., Michigan

Age of host

van Helden, H. P. T.; et al., 1976, *Trop. and Geogr. Med.*, v. 28 (4), 364 [Abstract]
Schistosoma mansoni, *S. haematobium*, focal and diffuse fluorescence patterns, variations with host age observed during serologic prevalence survey

Age of host

Henricson, J., 1977, *J. Fish Biol.*, v. 11 (3), 231-248
Diphyllbothrium dendriticum, *D. ditremum*, incidence and intensity of infection increased with age of fish to age 8+ for both species, no differences in intensity between sexes

Age of host

Henry, L.; and Beverley, J. K. A., 1976, *Brit. J. Exper. Path.*, v. 57 (3), 274-280
Toxoplasma gondii, mice, age and sex differences in response of lymph node post-capillary venules, possible role of female sex hormones on vascular endothelium in modifying development of immune response

Age of host

Hernandez Chinas, C.; Biagi Finisola, F.; and Salmon Rodriguez, L., 1975, *Bol. Med. Hosp. Inf.*, v. 32 (4), 621-627
 uncinariasis, children, epidemiologic and statistical survey: central Mexico

Age of host

Herrer, A.; and Christensen, H. A., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 54-58
Leishmania braziliensis, human, endemic persistence of cutaneous leishmaniasis with occurrence of disease mainly in children, *Choloepus hoffmanni* as principal reservoir host with infections also found in *Canis familiaris* and *Aotus trivirgatus*, collection of potential phlebotomine sandfly vectors: El Aguacate, Panama

Age of host

Hiatt, R. A., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 808-817
Schistosoma mansoni, human, assessment of public health impact, frequency of signs and symptoms in relation to prevalence and intensity of infection based on quantitative analysis of egg excretion, age and sex differences: Twawuzgi vs. Guramba, Highland Ethiopia

Age of host

Hiatt, R. A.; and Gebre-Medhin, M., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 473-481
Schistosoma mansoni, population-based clinical and quantitative parasitological parameters of infections in Highland Ethiopia

Age of host

Hinson, G.; et al., 1976, Tr. Illinois State Acad. Sc., v. 69 (2), 176-187
Crassiphiala bulboglossa in fishes, intensity of infection varied according to downstream locations, species of hosts, body location, and age of host: Embarras River, Champaign Co., Illinois

Age of host

Hornabrook, R. W.; Kelly, A.; and McMillian, B., 1975, Am. J. Trop. Med. and Hyg., v. 24 (4), 590-595
 survey and comparison of parasitic populations of 2 linguistic groups living at geographically different areas of island: Kar Kar Island

Age of host

Huang, C. T.; et al., 1969, Nettai Igaku (Trop. Med.), v. 11 (3), 136-144
 epidemiologic survey of post-mortem examinations and fecal specimens from hospital patients for intestinal helminths; incidence of clonorchiasis remains stable due to custom of eating raw fish; soil nematode infections decreasing with improved sanitation: Hong Kong

Age of host

Ismail, M. M.; and Nagaratnam, N., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 405-409
 filariasis as possible cause of arthritis, clinical features and laboratory findings in 33 cases, age distribution, diethylcarbamazine treatment gave good results: Sri Lanka

Age of host

Iurpalova, N. M., 1973, Parazity Zhivot. i Rasten., Akad. Nauk Moldavsk. SSR (9), 285-293
 cestodes of water-marshland birds, comparison of species found in young vs. adult birds: Chukot

Age of host

Iwamoto, I.; Tada, I.; and Wonde, T., 1973, Nettai Igaku (Trop. Med.), v. 15 (1), 36-45
Onchocerca volvulus in humans, epidemiologic survey, clinical manifestations, hetrazan: Ilubabor Province, Ethiopia

Age of host

Jacobs, D. E.; and Pegg, E. J., 1976, J. Helminth., v. 50 (4), 265-266
 gastrointestinal nematodes of elite show dogs, host age and sex, relatively low level of patent infections: Great Britain

Age of host

Jacobs, D. E.; and Prole, J. H. B., 1976, Vet. Parasitol., v. 1 (4), 377-387
 helminth infections of racing greyhounds, survey of 869 dogs, prevalence in relation to age and sex of host and season of year: southeast England

Age of host

Jakovljevic, D. D., 1975, Acta Vet. Beograd, v. 25 (6), 315-325
Ascaris suum, method for obtaining embryonated eggs capable of infection; number of developed worms in intestines inversely related to number of administered eggs and age of suckling pigs; pathomorphological changes in liver and lungs; earthworms (*Allolobophora caliginosa*, *Octolasion transpadanum*, *Lumbricus rubellus*, *Allolobophora leoni*) have only a passive role as 'carriers' of embryonated eggs in transfer of infection to swine; incidence and economic importance: Yugoslavia

Age of host

James, B. L., 1968, J. Nat. Hist., v. 2 (1), 21-37
Parvatremma homoeotecnium, percentage infection in *Littorina saxatilis tenebrosa* var. *similis* as affected by seasonal variations in host population density and correlation with host breeding cycle, migration, growth and mortality; brief comparisons with distribution in *Microphallus similis* and *M. pygmaeus* forms A and B: Twr Gwylanod, near Aberystwyth

Age of host

Jaron, W., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 157-152
 helminth fauna of adult swallows just returning from migration compared with young birds; dynamics of infection, species composition of helminths, various stages of nesting season: Poland

Age of host

Jarpa, A., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 96-102
 statistical analysis of clinical records of 85 patients with hepatic amoebiasis abscesses: Santiago, Chile

Age of host

Jeffery, G. M.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 402-411
 application of indirect fluorescent antibody test findings to assessment of endemicity of *Plasmodium falciparum* and *P. vivax* in malarial surveillance areas, climate, geography and area development as additional varying factors: Mato Grosso State, Brazil

Age of host

Jobin, W. R.; Negron-Aponte, H.; and Michelson, E. H., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 587-594
 epidemiologic surveys for prevalence of *Schistosoma haematobium* infections in snail hosts and humans to assist in evaluating risk of future schistosomiasis transmission in a proposed irrigation scheme for Mauritania and to assist in designing a system to minimize transmission

Age of host

Jones, H. I., 1976, Papua N. Guinea Med. J., v. 19 (3), 165-172

Ascaris lumbricoides, *Necator americanus*, *Trichuris trichiura*, epidemiologic survey of human helminths in natives of Kar Kar Island, *Ascaris* infections highest and heaviest in children and principal cause of high eosinophilia in the communities: Madang Province, Papua New Guinea

Age of host

Joyner, L. P., 1973, Folia Vet. Latina, v. 3 (1), 110-123

Eimeria adenoeides, *Eimeria meleagrimitis*, coccidiosis in turkeys, pathogenicity, age resistance, control, drug resistance, review

Age of host

Kale, O. O., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 208-214

Dracunculus medinensis, clinico-epidemiologic survey of guinea worm infection in native population, economic and occupational importance, possible control measures by provision of wholesome water supplies: Ibadan district, Nigeria

Age of host

Karim, K. A.; and Trust, T. J., 1977, Canad. Med. Ass. J., v. 117 (8), 895-896, 899

Toxoplasma gondii, sero-epidemiologic survey for titers of antibody to toxoplasmosis indicates that one in three persons in Greater Victoria area has been infected with the rate of infection particularly high in women aged 31 to 35: British Columbia

Age of host

Kasper, L. H.; and Alger, N. E., 1973, J. Protozool., v. 20 (3), 445-449

Plasmodium berghei, mice, adoptive transfer of immunity, effect of number of cells transferred, source of cells (spleen vs. lymph node), and age of host from which they are derived

Age of host

Katamine, D.; et al., 1972, Nettai Igaku (Trop. Med.), v. 14 (4), 186-197

Paragonimus in humans, epidemiologic survey of village inhabitants and vector crabs (*Eriocheir japonicus*), higher incidence of *Metagonimus yokogawai* infection than paragonimiasis in villagers: Hata District, Kochi Prefecture, Japan

Age of host

Kennedy, C. R.; and Burrough, R., 1977, J. Fish Biol., v. 11 (6), 619-633

Diplostomum gasterostei and *Tylodelphys clavata* in *Perca fluviatilis* (eyes), seasonal changes in frequency distribution, incidence and intensity of infection, parasite life span, age of host: Slapton Ley, South Devon

Age of host

Kennedy, C. R.; and Lie, S. F., 1976, J. Fish Biol., v. 8 (4), 293-302

Bustrongylides sp., distribution, pathogenicity of larvae in fish host, preference for female fish and larger fish, little accumulation in older fish, no seasonal changes in infection levels nor pathological effects

Age of host

Khan, R. A., 1975, J. Wildlife Dis., v. 11 (2), 205-209

Trichodina oviducti-infected *Raja radiata* (copulatory sac wall), histopathology, restriction of infection to adult hosts may be correlated with mucopolysaccharide levels: coastal areas adjacent to St. John's, Newfoundland, Canada

Age of host

King, C. M., 1977, J. Zool., London, v. 182 (2), 225-249

Skrjabinogylus nasicola, incidence and extent of damage caused in *Mustela nivalis*, climate, age, sex and body size of host: Britain

Age of host

Kinsella, J. M.; and Winegarner, C. E., 1975, J. Parasitol., v. 61 (4), 779-781

Anatrichosoma buccalis in *Didelphis virginiana*, incidence of lesions, host age, course of infection in field: Archbold Biological Station, Highlands County, Florida

Age of host

Kloetzel, K., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 344 [Letter]

Schistosoma mansoni, suggested technique for "selective chemotherapy" concentrating on the 10-19 years age groups as control measure for human schistosomiasis in Brazil

Age of host

Knight, R. A.; and Rodgers, D., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 116

Haemonchus contortus, lambs, age resistance to single inoculation

Age of host

Knight, S. A.; Janovy, J., jr.; and Current, W. L., 1977, J. Parasitol., v. 63 (5), 897-902

Myxosoma funduli on *Fundulus kansae* (gills), summer epizootiology: parasite population overdispersed within host population, demographic characteristics of infected fish subpopulation virtually identical to those of whole fish population, distribution on individual gill bars, proportion of unilateral vs. bilateral infections, pre-existing infection does not preclude new infection: South Platte River, Nebraska

Age of host

Kocylowski, B.; et al., 1976, Bull. Vet. Inst. Pulawy, v. 20 (1-2), 12-17

Eimeria carpelli, carp (intestine), incidence correlated with host age and state of culture and hygiene of ponds, amprolium chloride, good results, higher efficacy than nitrofurals: Poland

Age of host

Koenig-Rombourg, H., 1973, Medecine Trop., v. 33 (6), 611-616

survey of 270 sera for toxoplasmosis antibodies, comparison of Senegalese natives with findings in Europeans, relationship of age to antibodies

Age of host

Koller, R. L.; and Gaudin, A. J., 1977, Southwest. Nat., v. 21 (4), 503-509

helminths of *Bufo boreas* and *Hyla regilla*, recovery at 2 sites with diverse climates, statistical analysis indicates correlations between incidence and/or intensity of infection and host species, locality, and sex and size of host: Los Angeles County, California (Malibu Creek; Big Tujunga Wash)

Age of host

Kopp, H., 1975, Untersuchungen uber die Eiausscheidung von *Fasciola hepatica* und *Dicrocoelium dendriticum* bei Schaf und Rind im Verlauf eines Jahres, 53 pp.
Fasciola hepatica in sheep and cattle, *Dicrocoelium dendriticum* in sheep, egg production in relation to host age and season of year; problems in estimation of numbers of flukes from numbers of eggs in feces, bile or gall bladders

Age of host

Kozel, T. R., 1976, Tr. Kentucky Acad. Sc., v. 37 (1-2), 41-44
Ichthyophthirius multifiliis, distribution on body of *Fundulus notatus*, younger fish more heavily infested than older ones, host behavioral changes: area surrounding confluence of Pope Lick Creek and Floyds Fork Creek, near Pope Lick Road bridge, south-eastern Jefferson County, Kentucky

Age of host

Kretschmar, W.; and Voller, A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 51-59
Plasmodium falciparum, suppression of malaria in *Aotus trivirgatus* fed exclusively on milk diet, indicates that *P. falciparum* is dependent on exogenous p-aminobenzoic acid supply for normal growth, supports view that dietary factors are involved in infant resistance to malaria

Age of host

Kuhlow, F.; and Zielke, E., 1976, Tropenmed. u. Parasitol., v. 27 (1), 93-100
 night blood survey of 82 localities to establish distribution and prevalence of *Wuchereria bancrofti* in various parts of Liberia, humans

Age of host

Kuttler, K. L.; and Todorovic, R. A., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 106-112
Anaplasma marginale, cattle, premunization, Gloxazone and Imidocarb superior to oxy-tetracycline in moderating premunizing infection, possible factors affecting success (age of host; virulence, size, and potency of premunizing inoculum; strain or size of challenge exposure; temperature and altitude)

Age of host

van der Kuyp, E., 1971, Trop. and Geogr. Med., v. 23 (4), 376-380
Schistosoma mansoni, epidemiologic survey of 593 persons showed 4.7% infection rate with children most involved, main contamination area apparently ball field surrounded by ditches containing *Biomphalaria glabrata* vectors, preventive and control measures: Albina, Surinam

Age of host

Lambrecht, F. L.; and Fernando, J. B., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (1), 76-79
Wuchereria bancrofti, age-grading of *Culex pipiens fatigans* vector mosquitoes, assessment in relationship to vectorial capacities

Age of host

Lehman, J. S., jr.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 384-399
Schistosoma haematobium, men and boys, clinical evaluation, radiography, quantitative egg excretion, bacterial cultures, renal function, results analyzed by age, by symptoms, by presence of polypoid vs. calcified lesions, by presence or absence of obstructive uropathy, and by response to antischistosomal treatment: Egypt

Age of host

Lehman, J. S., jr.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 285-294
Schistosoma mansoni in a defined population, patterns of prevalence, intensity, hepatomegaly and splenomegaly with respect to age and sex: Castro Alves, Bahia, Brazil

Age of host

Lesin'sh, K. P.; et al., 1975, Latvijas PSR Zinat. Akad. Vestis (340) (11), 27-30
 helminths, chickens, effect of host age and method of rearing on infestation: Latvian SSR

Age of host

Lewis, J. W.; and Bryant, V., 1976, J. Helminth., v. 50 (3), 163-171
Nematospiroides dubius, distribution within small intestine of mice up to 60 days post-infection, relation of establishment and pattern of distribution to host age and sex, degree of aggregation of worm populations with respect to host intestine and to each other

Age of host

Lie, K. J.; Kwo, E. H.; and Ow-Yang, C. K., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (2), 196-200
Ascaris lumbricoides, *Trichuris trichiura*, *Necator americanus*, fecal survey for evidence of soil-transmitted helminths in infants and children living near Kuala Lumpur, Malaysia

Age of host

Lim, H. K.; Ow-Yang, C. K.; and Lie, K. J., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (1), 134-135 [Demonstration]
Echinostoma audyi, *E. hystricosum*, *Hypoderaeum dingeri*, development of redial populations within *Lymnaea rubiginosa* snail hosts (exper.), trematode development associated only with increased snail size

Age of host

Lockard, L. L.; Parsons, R. R.; and Schaplow, B. M., 1975, Great Basin Nat., v. 35 (4), 442-448
Salmo trutta (upper digestive tract), relationship of incidence and intensity of nematode infection to age and sexual maturity of host, higher infection rate in sexually mature trout due to aggressive feeding behavior: streams in southern and western Montana

Age of host

Long, P. L., 1971, Symposia Brit. Soc. Parasitol., v. 9, 65-75

maintenance of *Eimeria* and *Histomonas* in vivo, extensive review: maintenance of *Eimeria* (purification of species, exper. infections in chickens, factors affecting susceptibility of chickens and chicken embryos to infection; freeze-preservation); maintenance of *Histomonas meleagridis* (infection with ground-up infected tissues; use of in vitro cultures to obtain in vivo infections; use of embryonated *Heterakis gallinarum* ova to induce histomoniasis in vivo)

Age of host

Lubieniecki, B., 1976, J. Fish Biol., v. 8 (6), 431-439

Grillotia erinaceus plerocercoids, haddock, cod, saithe, incidence and intensity increased with host age, no host sex difference in incidence, proportions of parasite maturity stages consistent between haddock length groups, distribution in gut of hosts, speculation on life cycle, Ouchterlony gel diffusion test (precipitin bands failed to develop)

Age of host

McCullough, F. S.; and Magendantz, M., 1974, Ann. Trop. Med. and Parasitol., v. 68 (1), 69-80

Schistosoma mansoni, human, epidemiological survey, prevalence and egg output patterns, attempted correlation with age, sex, sector, socio-economic status, religion, occupation, and water supply, relative importance of Lake Victoria and several small streams in transmission, implications for control measures: Mwanza, Tanzania

Age of host

McGhee, R. B.; Singh, S. D.; and Lushbaugh, W. B., 1975, J. Protozool., v. 22 (3), 18A [Abstract]

Plasmodium gallinaceum in chicken embryos of different ages, differences in development and reproduction may be due to different hemoglobin composition

Age of host

McMillan, B.; Kelly, A.; and Walker, J. C., 1971, Trop. and Geogr. Med., v. 23 (4), 390-392

Hymenolepis diminuta, statistics of prevalence survey in highland areas; no evidence of *H. nana* in man in this area: New Guinea

Age of host

McVicar, A. H., 1977, J. Helminth., v. 51 (1), 11-21

intestinal helminths of *Raja naevus*, incidence, intensity, pattern of infection with host age and sex, geographical differences in composition of parasite burden: British waters

Age of host

Martialay Valle, F., 1975, An. Inst. Invest. Vet., Madrid, v. 23, 1974-1975, 131-148

Eimeria bateri, pathogenic for one day old quails, little pathogenicity for quails more than 2 weeks old

Age of host

Mason, J.; and Hobbs, J., 1977, Bull. Pan Am. Health Organ., v. 11 (1), 17-30

malaria field studies, 1971-1973, incidence, seasonal occurrence, densities in regard to host age and sex: coastal area of El Salvador

Age of host

Mathews, H. M.; Lobel, H. O.; and Breman, J. G., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 217-220

Plasmodium falciparum, *P. malariae*, infants and young children, prevalence of malaria antibody evaluated using indirect hemagglutination test with *P. falciparum* antigen and filter paper blood specimens, slight decline in 6- to 8-month-old children with no demonstrable parasitemia but those older than 10 months had similar antibody levels regardless of presence or absence of demonstrated parasites in blood smears: Ivory Coast

Age of host

Mattern, C. F. T.; and Keister, D. B., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 393-401

axenically cultured *Entamoeba histolytica* in mice (brain) (exper.), pathology and pathogenicity of virulent and avirulent strains, variations in host response related to host age

Age of host

Mattern, C. F. T.; and Keister, D. B., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 402-411

axenically cultured *Entamoeba histolytica* in newborn hamsters (liver) (exper.), pathology of hepatic infections, variations in strain virulence, host response related to host age

Age of host

de Meuter, F., 1972, Medecine et Malad. Infect., v. 2 (10), 345-346

4 strains of human *Toxoplasma gondii* isolates lethal in new-born rats but tolerated by adult rats

Age of host

Meyers, T. R.; Sawyer, T. K.; and MacLean, S. A., 1977, J. Parasitol., v. 63 (5), 890-896

Henneguya sp. in *Pomatomus saltatrix* (bulbus and truncus arteriosus), gross and microscopic pathology, size of host: Atlantic Ocean near Montauk Point, Long Island, New York; Raritan Bay, New Jersey; Chesapeake Bay, Maryland

Age of host

Mora, M.; and Tatalovic, N., 1975, Nouv. Presse. Med., v. 4 (10), 744 [Letter]

human visceral Mediterranean leishmaniasis occurring in 78-year-old woman, case report: France

Age of host

Motakef, M.; et al., 1977, Pahlavi Med. J., v. 8 (2), 208-219

epidemiologic survey of human intestinal parasites in Khorasan Province, Iran and comparisons with previous survey areas

Age of host

- Mott, K. E.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 552-562
epidemiology and household distribution of seroreactivity to *Trypanosoma cruzi* in defined rural population in endemic area, analysis of seropositivity with age and sex of host and possible correlations with immunologic factors: Brazil

Age of host

- Muraleedharan, K.; et al., 1976, Mysore J. Agric. Sc., v. 10 (1), 105-117
prevalence and incidence of *Schistosoma nasale* in cattle and buffaloes, disease dependent upon host age and sex, number of infected snail intermediate hosts, temperature, and rainfall: Karnataka State (Dhanayakanapura, Bangalore District; Hunchipura, Mandya District)

Age of host

- Nadakal, A. M.; et al., 1973, Tr. Am. Micr. Soc., v. 92 (2), 273-276
Raillietina echinobothrida, new ant intermediate hosts, exper. infections in chickens revealed no effect of host age or infecting dose on prepatent period, histopathological changes, enteritis with granuloma formation

Age of host

- Ndiritu, C. G.; and Al-Sadi, H. I., 1977, J. Small Animal Practice, v. 18 (3), 199-205
hookworms, dogs, age and sex incidence, seasonal distribution, clinical picture, pathology: Nairobi, Kenya

Age of host

- Nejmi, S.; and Alami, S., 1973, Maroc Med. (572), v. 53, 561-568
Toxoplasma gondii, epidemiologic survey of Moroccan population using immunofluorescence: Maroc

Age of host

- Nelson, G. S.; and Davies, J. B., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 16-17 [Demonstration]
Mansonella ozzardi, humans, epidemiologic survey, concentration of microfilariae in superficial capillaries, mixed infections with *Wuchereria bancrofti* differentiated using stained filters: Trinidad

Age of host

- Nosenas, J. S.; et al., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 359-365
Schistosoma japonicum, estimation of annual incidence by monitoring prevalence in school children, application to control measures: Philippines

Age of host

- Nourmand, A., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 845-847
Echinococcus granulosus, experience with hydatid cyst in 58 pediatric patients from 3 to 18 years of age: Iran

Age of host

- Nozais, J. P.; et al., 1975, Medecine Trop., v. 35 (5), 413-417
Toxoplasma gondii, epidemiologic survey of disease prevalence using indirect immunofluorescence test, infection at early age, probably through ingestion of contaminated soil as a result of poor hygiene habits: Ivory Coast

Age of host

- Odening, K.; and Bockhardt, I., 1976, Zool. Anz., Jena, v. 196 (3-4), 182-188
Azygia lucii, seasonal occurrence, pike, (*Esox lucius*), age of host: near Berlin

Age of host

- Oduye, O. O.; and Dipeolu, O. O., 1976, J. Small Animal Practice, v. 17 (5), 331-337
blood parasites of dogs, single and mixed infections, correlation between incidence and rainfall, degree of parasitaemia, infectivity rate within age groups, no significant difference in host susceptibility of local and exotic breeds to infection: Ibadan, Nigeria

Age of host

- Ogunba, E. O., 1977, J. Trop. Med. and Hyg., v. 80 (9), 187-191
human intestinal protozoa, epidemiologic and prevalence survey in Ibadan, Nigeria

Age of host

- O'Holohan, D. R., 1976, J. Trop. Med. and Hyg., v. 79 (9), 191-196
Plasmodium vivax, *P. falciparum*, human, analysis of clinical and laboratory findings of 1000 cases, need for diagnostic awareness and repeated blood smears in endemic areas: Malaysia

Age of host

- Oikawa, H.; et al., 1975, Japan. J. Vet. Sc., Tokyo, v. 37 (3), 271-279
Eimeria spp., chickens, survey during 1973 neither seasonal nor regional distribution differences were observed; oocyst detection rate significantly low in chicks up to 30 days old: Japan

Age of host

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Boophilus microplus, infestation of British vs. zebu calves in early life (nat. and exper.), differences in resistance, changes in blood composition

Age of host

- Okon, E. D., 1976, Trop. Animal Health and Prod., v. 8 (2), 96
B[abesia] trautmanni, Eperythrozoon, *Haematopinus suis*, pigs, incidence of infection according to host age groups: Ibadan, Nigeria

- Age of host
Olsen, T., 1976, *Sarsia* (61), 55-57
Podocotyle atomon, two-spot gobies, *Gobius flavescens* (stomach, intestine), incidence increases with host age; monthly incidence: Lindaspollene, western Norway
- Age of host
Omer, A. H. S.; et al., 1976, *J. Trop. Med. and Hyg.*, v. 79 (7), 151-157
increasing incidence of *Schistosoma mansoni* in Gezira area of Sudan, clinical findings in inhabitants, frequent hepatosplenomegaly attributed to schistosomiasis and possibly hyperendemic malaria
- Age of host
Omland, T.; Tønjum, A.; and Frenzel-Beyme, B. R., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 372-376
Toxoplasma gondii, prevalence survey for presence of antibodies to toxoplasmosis in native Liberians using the Sabin-Feldman dye test, differing habitats
- Age of host
Onuigbo, W. I. B., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (4), 708-709
Onchocerca volvulus, statistical survey of biopsied nodules in the Igbos of Nigeria
- Age of host
Overstreet, R. M., 1977, *J. Parasitol.*, v. 63 (5), 780-789
Poecilancistrum caryophyllum in *Cynoscion nebulosus*, seasonal incidence and intensity, relation of infections to salinity and temperature of water, host length and host sex, common infection sites, effect of plerocercoids on host, possible immune response: Gulf of Mexico
- Age of host
Ow-Yang, C. K.; Lim, H. K.; and Lie, K. J., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (1), 135 [Demonstration]
Fasciola gigantica in *Lymnaea rubiginosa* (exper.), increased host resistance with increased host age
- Age of host
Pal, M.; Verma, J. D.; and Dahiya, S. M., 1976, *Indian J. Animal Research*, v. 10 (2), 93-95
Theileria, cattle, higher incidence in young calves of exotic breed (Holstein Friesian) than adults: Satbari, Delhi
- Age of host
Pampiglione, S.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 60-68
Leishmania donovani, statistics of leishmanin skin test survey of old endemic focus and new outbreak area of human Mediterranean leishmaniasis, useful tool for epidemiologic studies: Italy
- Age of host
Pampiglione, S.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 62-65
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- Age of host
Pampiglione, S.; and Ricciardi, M. L., 1972, *Parassitologia*, v. 14 (2-3), 329-338
Strongyloides fuelleborni, survey, geographic distribution, incidence in human feces, endemic in tropical forest regions, sporadic in savannah regions, slightly higher prevalence in children: West, Central and East Africa
- Age of host
Paperna, I.; and Zwerner, D. E., 1976, *Canad. J. Zool.*, v. 54 (4), 449-462
Ergasilus labracis, distribution, seasonal abundance, host age, life cycle, developmental stages (free-living and on *Morone saxatilis*), laboratory studies on egg development, hatching, naupliar survival, and adult female survival; effects of temperature and salinity: lower Chesapeake Bay
- Age of host
Pavlassek, I., 1975, *J. Protozool.*, v. 22 (3), 68A [Abstract]
coccidiosis, calves, incidence in relation to age
- Age of host
Pavlicek, J.; and Dykova, I., 1976, *Vet. Med., Praha*, v. 49, v. 21 (6), 353-358
Ascaridia galli, chickens of different age groups, effectiveness of piperazine, tetramisole and metrifonate, metrifonate entirely ineffective; tissue reaction of host and number of worms as measures of effectiveness
- Age of host
Picq, J. J.; and Roux, J., 1973, *Medecine Trop.*, v. 33 (5), 451-461
Onchocerca volvulus, human, microfilaruria in relation to age and sex of host, other filarial diseases, geographic region, cutaneous microfilarial densities, albuminuria during suramin treatment, eggs of *Schistosoma haematobium* in urine, and diethylcarbamazine chemotherapy
- Age of host
Pizarro, D.; et al., 1968, *Bol. Chileno Parasitol.*, v. 23 (3-4), 121-124
human echinococcosis, survey of statistics of surgical cases of pleuropulmonary infections: Santiago, Chile
- Age of host
Plasota, K., 1969, *Acta Parasitol. Polon.*, v. 16 (1-19), 1968-1969, 47-60
helminths of frogs, comparison of aquatic and terrestrial hosts, relation of parasite fauna to environment, food supplies and food habits, host life cycle, temperature, rainfall, season, age and sex of host, competition between species of parasite, localization within host: Kampinos National Park, Poland
- Age of host
Popov, V. N., 1976, *Biol. Nauk., Min. Vyssh. i Sredn. Spetsial. Obrazovan. SSSR* (145), year 19, (1), 49-53
Corynosoma spp., nematodes, age dynamics of infection of *Histriophoca fasciata*: northern shore of Okhotsk Sea from Lisiansk peninsula to Iamsk island

Age of host

Portaro, J. K.; Kowalski, J. C.; and Ash, L.R., 1977, *Exper. Parasitol.*, v. 43 (1), 122-127
adaptation of *Meriones unguiculatus* lymphocytes to an in vitro microassay system, use in study of cellular immune function with mitogens, mitogen reactivity decreased with iird age and was depressed by infection with *Brugia pahangi*

Age of host

Pout, D. D., 1973, *Brit. Vet. J.*, v. 129 (6), 555-567
coccidiosis, lambs, faecal oocyst production, relationship to host age, variation in pattern of initial infection and levels of subsequent burden

Age of host

Purnell, R. E.; et al., 1974, *J. Comp. Path.*, v. 84 (4), 533-537
Theileria lawrencei Serengeti strain, comparative infectivity for cattle of stabilates derived from adult vs. nymphal *Rhipicephalus appendiculatus*

Age of host

Raibaut, A.; Ben Hassine, O. K., and Prunus, G., [1976], *Bull. Soc. Zool. France*, v. 100 (4), 1975, 427-437
Ergasilus nanus, *Mugil cephalus* (gills), infestation dependent upon water temperature and salinity, parasite number increases with host size: lake Ischkeul, Tunisia

Age of host

Rajamanickam, C., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (1), 132 [Demonstration]
Babesia argentina infection in 10-day-old calf (blood, brain, spleen) born to cow recently imported from Australia: Malaysia

Age of host

Rajasekariah, G. R.; and Howell, M. J., 1977, *Internat. J. Parasitol.*, v. 7 (2), 119-121
Fasciola hepatica, effects of different doses of metacercariae and of host age on parasite establishment in rats, neither crowding effect nor competitive inhibition occurred, factors involved in age resistance develop at about 10 weeks of age

Age of host

Rajagopalan, P. K.; Kazmi, S. J.; and Mani, T. R., 1977, *Indian J. Med. Research*, v. 66 (2), 200-215
Wuchereria bancrofti, statistical epidemiologic survey on microfilaremia (seasonal fluctuation of infection in *Culex pipiens fatigans* vectors, localization in vectors, human infection by age and sex, microfilarial periodicity, percentage of night biting, experimental laboratory infections): Pondicherry, India

Age of host

Ramachandran, C. P.; et al., 1971, *Med. J. Malaya*, v. 25 (4), 273-277
survey of workers on rubber plantation for evidence of *Brugia malayi* filariasis: Negeri Sembilan, West Malaysia

Age of host

Ramirez, R., 1976, *Bol. Chileno Parasitol.*, v. 31 (1-2), 8-11
Echinococcus granulosus, statistical survey of human cases of echinococcosis registered from 1970-1974 in Chile

Age of host

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survey for human intestinal parasites in various zones of Chile

Age of host

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monogenean trematodes, development in *Mugil cephalus*, seasonal distribution, intensity of infection, parasite number increases with host age: spartina marsh drainages, Sapelo Island, McIntosh County, Georgia

Age of host

Raynaud, J.-P.; and Bouchet, A., 1976, *Ann. Recherches Vet.*, v. 7 (3), 253-280
bovine ostertagiosis, analysis of types and syndromes, total worm counts, post mortem examinations, survey of 74 cattle: France

Age of host

Reid, J. F. S., 1976, *Vet. Rec.*, v. 98 (25), 496-499
gastrointestinal nematodes, coccidiosis, diarrhea of sheep, age and seasonal factors: Britain

Age of host

Reyes, H.; Doren, G.; and Inzunza, E., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 23-29
survey of prevalence of human taeniasis, frequency of infection by different spp., increasing incidence of *T. solium* suggests consumption of unsanitary pork: Santiago, Chile

Age of host

Ricciardi, I. D.; Sandoval, E. F. D.; and Mayrink, W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 516-517
Toxoplasma gondii, human prevalence survey, distribution by age: Brazil

Age of host

Richards, C. S., 1977, *Exper. Parasitol.*, v. 42 (1), 165-168
Schistosoma mansoni, susceptibility reversal with age in *Biomphalaria glabrata*

Age of host

Rickard, M. D.; Coman, B. J.; and Cannon, R.M., 1977, *Vet. Parasitol.*, v. 3 (1), 1-9
Taenia pisiformis, dogs, demonstration of age resistance but not of acquired immunity

Age of host

Rifaat, M. A.; et al., 1976, *J. Trop. Med. and Hyg.*, v. 79 (3), 67-70
seroepidemiologic survey of stray cats for *Toxoplasma gondii* antibodies and role in epidemiology of human infection, no cross-immunity with *Isospora* spp. in relationship study, high percentage of cats surveyed shedding oocysts in feces: Cairo, Egypt

- Age of host
Ringelmann, B.; et al., 1976, Am. J. Hum. Genet., v. 28 (3), 270-279
possible relationships between hemoglobin types and human malarial infection rate, parasite species, parasite density, host age and sex; correlations with transplacental and passive immunity
- Age of host
Robinson, M. J.; and Eykyn, S., 1977, Brit. Med. J. (6103), v. 2, 1667 [Letter]
childhood malaria, increasing incidence with increased travel to and from endemic areas, diagnostic problem in children: United Kingdom
- Age of host
Rougemont, A.; et al., 1974, Medecine Trop., v. 34 (1), 29-36
prevalence of intestinal helminths in adult population of 3 native villages, usefulness of Kato "thick smear" technique for mass epidemiologic surveys (*Hymenolepis nana*; *Trichuris trichiura*; *Ascaris lumbricoides*; *Enterobius vermicularis*; *Schistosoma mansoni*): all from Bamako area, Mali
- Age of host
Ruegamer, W. R.; and Phares, C. K., 1974, Proc. Soc. Exper. Biol. and Med., v. 146 (3), 698-702
Spirometra mansonioides, determination of age at which rats (exper.) show growth response to infections with plerocercoids, results show that slowly-growing intact female rats (96-133 days old) can be made to grow faster than uninfected controls and that they utilize their food more efficiently for growth, similar preliminary findings in infected males
- Age of host
Ruiz-Tiben, E.; Cox, P. M.; and Greenberg, E. R., 1973, Ann. Trop. Med. and Parasitol., v. 67 (3), 341-348
Schistosoma mansoni, human, skin test interpretation, derivation of simplified objective criteria based upon frequency distributions of antigen and control wheal sizes by age and sex: Puerto Rico
- Age of host
Rukmono, B.; Naumar, S. A.; and Talogo, R. W., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (2), 249-255
Ascaris lumbricoides, *Entamoeba histolytica*, *Giardia lamblia* implicated as possible pathogens in survey of infantile diarrhea in a population of low socio-economic group in Djakarta, Indonesia
- Age of host
Rutter, N., 1977, Brit. Med. J. (6098), v. 2, 1335-1336
malaria infections in children born and living in non-malarious areas who have contracted infections upon visiting malarious areas with their immigrant parents who possibly have some natural immunity to malaria although their children do not, importance of diagnostic awareness: Nottingham, England
- Age of host
Rybnikar, A., 1975, Acta Vet. Brno, v. 44 (4), 385-391
Dictyocaulus filaria, experimentally infected lambs used as donors for obtaining larvae for preparation of radiation vaccine; amount of larvae excreted dependent upon body mass and age of lambs, total dose of larvae and season of infestation
- Age of host
Saathoff, M.; and Dogba, C., 1974, Tropenmed. u. Parasitol., v. 25 (4), 401-404
Toxoplasma gondii, prevalence of infection in juveniles and adults determined by Sabin Feldman dye test: south Togo
- Age of host
Samuel, W. M.; Barrett, M. W.; and Lynch, G. M., 1976, Canad. J. Zool., v. 54 (3), 307-312
helminths of *Alces alces*, 3 study areas, differences in parasite prevalence due to fauna and ecology of habitat and age of host: Alberta, Canada
- Age of host
Sankale, M.; Diop, B.; and Diouf, S., 1970, Medecine Afrique Noire, v. 17 (6), 467-477
statistical review of 223 cases of hepatic amoebiasis: Dakar
- Age of host
Saul, K. W.; and Kreier, J. P., 1977, Tropenmed. u. Parasitol., v. 28 (3), 302-318
Plasmodium berghei-infected rats (exper.), immunization with antigens of a sonically freed preparation of erythrocytic parasites rich in merozoites, evaluation in rats of 3 age groups and of vaccine with and without adjuvants, freeze-thawed freed parasites did not lose antigenicity when stored up to 2 weeks
- Age of host
Schantz, P. M.; et al., 1976, Tropenmed. u. Parasitol., v. 27 (1), 70-78
significance of infectivity survey of domestic animals and wild carnivores as potential reservoir hosts of *Echinococcus granulosus* in Argentina, host-induced morphologic variations
- Age of host
Schawaldler, P., 1976, Schweiz. Arch. Tierh., v. 118 (5), 203-216
parasite fauna of dogs, epidemiological and ecological parameters (resistance in relation to age, seasonal distribution in relation to ecological factors): Bern area, Switzerland
- Age of host
Schenone, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 2-6
scabies, human, results of epidemiologic survey of increasing incidence, prophylactic measures instituted by public health authorities, mass treatment with lindane emulsion: Santiago, Chile

Age of host

Schenone, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 103-107
Trichinella spiralis, humans, prevalence survey, evidence of increasing infection: Chile

Age of host

Schenone, H.; et al., 1973, Bol. Chileno Parasitol., v. 28 (1-2), 31-33
Pediculus humanus capitis, statistics of human infestation, lindane treatment unsuccessful, personal hygiene more important: Chile

Age of host

Schock, R. C., 1976, Mod. Vet. Pract., v. 57 (3), 181-184
 gastrointestinal nematodes, cattle, level of parasitism, pasture conditions, nutrition and age of host, seasonal influences

Age of host

Schweisgut, I., 1975, Untersuchungen über den Endoparasitenbefall des Rotwildes im Nationalpark Bayerischer Wald in den Jagdjahren 1973/74 und 1974/75, 70 pp.
 survey of helminths in [*Cervus elaphus*], comments on incidence in relation to season and age and sex of host: Nationalpark Bayerischer Wald

Age of host

Sebai, Z. A.; and Morsy, T. A., 1976, J. Trop. Med. and Hyg., v. 79 (4), 89-91
 statistics of prevalence survey of human cutaneous leishmaniasis in Bisha region, Saudi Arabia

Age of host

Selman, I. E.; et al., 1976, Vet. Rec., v. 99 (3), 141-143
Ostertagia ostertagi, outbreaks of ostertagiasis affecting adult beef cattle, clinical, biochemical, haematological, parasitological and pathological findings characteristic of type II ostertagiasis in immature cattle, diagnosis

Age of host

von Seyerl, F.; and Brunner, S., 1972, Munchen. Med. Wchnschr., v. 114 (39), 1641-1642
 human acquired toxoplasmosis, statistics of lymphatic system involvement

Age of host

Shepherd, R. C. H.; and Edmonds, J. W., 1977, J. Austral. Entom. Soc., v. 16 (3), 237-244
Leporacarus gibbus, *Cheyletiella parasitivorax*, and *Haemodipsus ventricosus* on *Oryctolagus cuniculus*, infestation rates, seasonal variation, sex ratios of *Leporacarus gibbus*, age and sex of host: Victoria

Age of host

Shettigara, P. T.; Choi, N. W.; and Abu-Zeid, H. A. H., 1976, Am. J. Epidemiol., v. 104 (3), 340 [Abstract]
 prevalence survey of prenatal sera for presence of *Toxoplasma* antibodies and correlation of findings with ethnic origins, socioeconomic status and climatic differences: Manitoba Province

Age of host

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 schistosomiasis, human, prevalence measured by parasitological examination and by fluorescent antibody titrating, correlation detected between mean titer and prevalence of infection particularly in younger people, suggested that fluorescent antibody titrating may be useful epidemiological tool: Rhodesia

Age of host

Siddiqui, M. A.; and Kershaw, W. E., 1976, Ann. Trop. Med. and Parasitol., v. 70 (3), 313-322
Litomosoides carinii, laboratory transmission to Delhi and Carworth strains of *Rattus norvegicus*, relationships between transmission intensity and worm recovery, possible age resistance

Age of host

Siongok, T. K. A.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 273-284
Schistosoma mansoni, cross-sectional study of entire community in endemic area, prevalence and intensity of infection (as determined by quantitative egg counts) correlated with morbidity (as determined by standard medical examination): village of lower Nduu, Machakos, Kenya

Age of host

Slonka, G. F.; et al., 1977, J. Parasitol., v. 63 (2), 377-383
Pediculus humanus capitis, human, epidemic in public schools, sex, age, race, socioeconomic status, crowding, method of closetting garments, and family size influenced distribution of pediculosis but hair length apparently was not a factor, poverty and ignorance appeared to contribute to persistence of infestation: Buffalo, New York

Age of host

Smychkov, A. S., 1976, Sborn. Nauch. Rabot. SibNIVI, Sibirsk. Nauchno-Issled. Vet. Inst. (26), 129-134
Moniezia expansa, *M. benedeni*, *Thysaniezia giardi*, pastured sheep, long-term treatment with a mixture of copper sulfate-phenothiazine salt, influence of host age and seasonal distribution on incidence and intensity of infection

Age of host

Sornmani, S.; et al., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 365-374
Schistosoma japonica, extensive epidemiologic survey of endemic area of Khong Island, lower Mekong Basin, Southern Laos

Age of host

Sornmani, S.; Vivatanasesth, P.; and Thirachanttra, S., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 270-281
 human Mekong schistosomiasis, clinical aspects, pathologic findings, age and sex factors: Khong Island, Southern Laos

- Age of host**
Soyka, E., 1977, Praxis, Bern, v. 66 (34), 1074-1079
Trichomonas vaginalis, survey of infections in children 2-15 years of age, clinical management with tinidazole
- Age of host**
Stagno, S.; and Thiermann, E., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 16-21
Toxoplasma gondii, prevalence survey of children 6 years old and under for presence of antibodies, importance of consideration of acquired toxoplasmosis in differential diagnosis of childhood diseases: Santiago, Chile
- Age of host**
Stannard, A. A.; and Cello, R. M., 1975, Am. J. Vet. Research, v. 36 (7), 1029-1031
Onchocerca cervicalis, horses, prevalence, more common in older animals, occurred in both sexes equally, distribution and concentration of microfilariae within skin, cutaneous pathologic changes, invasion of eye with microfilariae in 60% of cases
- Age of host**
Stern, M. S.; and MacKenzie, R. G., 1975, Med. Clin. North Am., v. 59 (6), 1395-1405
Trichomonas vaginalis, minor venereal disease in adolescents, brief clinical review
- Age of host**
Stoimenov, K., 1976, Vet. Med. Nauki, v. 13 (7), 48-54
Heterakis gallinarum, chickens, parasite survival rate and pathogenicity increased by lower dose of infection and in 3-4 month old hosts; effects of blood factors; more female worms in older birds
- Age of host**
Straka, S.; et al., 1977, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 26 (1), 52-60
tapeworms, human, epidemiological analysis, geographical distribution, sex, age, social structure, occupation and clinical symptoms; transmission by raw meat, efficacy of anthelmintics: Slovak Socialist Republic
- Age of host**
Stromberg, P. C.; and Crites, J. L., 1974, J. Wildlife Dis., v. 10 (4), 352-358
Triaenophorus nodulosus, white bass, prevalence of infection increases with size and age of host, pathological changes: western Lake Erie
- Age of host**
Stuht, J. N., 1975, J. Wildlife Dis., v. 11 (2), 256-262
Trypanosoma [sp.] in Odocoileus virginianus and Cervus canadensis, morphology, higher incidence in older deer: Michigan
- Age of host**
Subramanian, G.; and Singh, K. S., 1973, Isotopes and Radiation Parasitol. III, 67-71
Ascaridia galli, one-week old chicks, attempted immunization with irradiated vs. normal eggs
- Age of host**
Sucharit, S.; and Macdonald, W. W., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (1), 71-77
Brugia pahangi, rats (exper.), selection program in which rats susceptible to infection were selectively bred, increase in microfilaria rate by F4 generation, resistance to infection in older male rats seemed to be reduced
- Age of host**
Suenaga, O.; Itoh, T.; and Nishioka, T., 1971, Nettai Igaku (Trop. Med.), v. 12 (4), 169-178
Dirofilaria immitis, prevalence survey in domestic dogs, seasonal distribution: Nagasaki City, Japan
- Age of host**
Suenaga, O.; Kamahara, H.; and Shibata, M., 1974, Nettai Igaku (Trop. Med.), v. 16 (2), 95-101
Dirofilaria immitis in house dogs, prevalence survey for microfilariae in peripheral blood: Omura City, Japan
- Age of host**
Sullivan, J. J.; and Chernin, E., 1976, Internat. J. Parasitol., v. 6 (1), 75-78
Brugia pahangi and Dipetalonema viteae compared, differences in oral vs. subcutaneous infection of anaesthetized vs. unanaesthetized adult vs. neonatal Meriones unguiculatus
- Age of host**
Sweeting, R. A.; and Powell, A., 1977, Parasitology, v. 75 (2), xxxviii [Abstract]
Tylodelphys podicipina as a possibly important factor in perch mortality, fluke burden decreases with increased age of host (as opposed to T. clavata and Diplostomum spathaceum which increase with host age) probably because of selective mortality operating against infected hosts: England
- Age of host**
Talathi, S. B.; Joshi, N. C.; and Sood, S. R., 1973, Pediat. Clin. India, v. 8 (4), 213-214
Plasmodium vivax malaria in neonate following exchange transfusion for Rh incompatibility, successful treatment with amodiaquin, clinical case report, suggested control measures: Bombay, India
- Age of host**
Tan, D. S. K.; and Zaman, V., 1973, Med. J. Malaysia, v. 27 (3), 188-191
statistical survey for prevalence of Toxoplasma gondii antibodies in inhabitants of West Malaysia
- Age of host**
Taren, I. U., 1976, Internat. Rev. Ges. Hydrobiol., v. 61 (5), 699-702
Cercaria orospinosa in Melanopsis praemorsa (hepatopancreas), infestation correlated with snail size and strength of water current, seasonal distribution: Savanda stream, Turkey

- Age of host
Tarter, D. C.; and Joy, J. E., 1976, Tr. Am. Micr. Soc., v. 95 (2), 237-240
Neascus rhinichthysi infesting *Rhinichthys atratulus* subsp., incidence and intensity, age and sex of host: West Virginia
- Age of host
Telch, J.; Vega Franco, L.; and Lara, R., 1974, Bol. Med. Hosp. Inf., v. 31 (4), 733-746
intestinal parasites, children 6 years old and under, 1-year survey of out-patients, statistical evaluation: Mexico
- Age of host
Terragna, A., 1975, Paediatrician, v. 4 (2-3), 138-154
Toxoplasma gondii in children, present perspectives, extensive review (biology, epidemiology, life cycle, clinical aspects, diagnosis, fine structure, therapy)
- Age of host
Theis, J. H.; et al., 1976, J. Med. Entom., v. 13 (1), 26-39
Rhipicephalus sanguineus feeding on dog, inflammation area, changes in flow rate of cells and total protein content of draining lymph, age and size of dogs, importance in disease transmission
- Age of host
Thomas, V.; and Dissanaik, A. S., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 602-606
Plasmodium spp., detection of malaria endemicity among Orang Asli aborigines using *Plasmodium falciparum* and *P. brasilianum* antigens and indirect fluorescent antibody test (IFA), age dependent increase in number of positive results, IFA valuable as adjunct to blood slide examination especially when parasites are at very low levels: Malaysia
- Age of host
Tizard, I. R.; Chauhan, S. S.; and Lai, C. H., 1977, J. Hyg., Cambridge, v. 78 (2), 275-282
Toxoplasma gondii, epidemiologic survey, prevalence of antibodies in human serum, inverse relationship between urban size and infection prevalence: Province of Ontario, Canada
- Age of host
Tizard, I. R.; Fish, N. A.; and Quinn, J. P., 1976, J. Hyg., Cambridge, v. 77 (1), 11-21
extensive survey of human serum for presence of antibodies to *Toxoplasma gondii* and observations on probable epidemiology: Canada
- Age of host
Torres, P.; Figueroa, L.; and Navarrete, N., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 52-55
Trichostrongylus spp. survey in humans, morphological differentiation for diagnosis: Chile
- Age of host
Truong-Minh-Ky, D.; et al., 1976, Medecine Afrique Noire, v. 23 (4), 215-223
Plasmodium malariae, *Plasmodium falciparum*, survey of village infants for presence of malarial antibodies: Abidjan
- Age of host
Tsimbaliuk, A. K.; Kulikov, V. V.; and Baranova, T. I., 1968, Gel'mint. Zhivot. Tikhogo Okeana (Skriabin), 125-128
Microphallus calidris, cercariae and marita, description, degree of infection among age groups of mollusc (*Littorina kurila*): Paramushir Island
- Age of host
Turner, B. C.; and Threlfall, W., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 157-169
parasites of *Anas crecca* and *A. discors*, incidence and intensity, age and sex of host: eastern Canada
- Age of host
Turner, H. M.; and McKeever, S., 1976, Internat. J. Parasitol., v. 6 (6), 483-487
Taenia taeniaeformis, development of refractory responses in *Mus musculus* (White Swiss strain) from 10th to 100th day post-partum, gut and liver phases of infection compared histologically
- Age of host
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Schistosoma mansoni, human, simple standardized hatching test used to estimate egg hatching rate in relation to host age, sex, and intensity of infection, implications for epidemiology and for use in assessing drug efficacy: St. Lucia, West Indies
- Age of host
Urcelay, S.; Correa, J.; and Rudolph, W., 1973, Bol. Chileno Parasitol., v. 28 (1-2), 6-9
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- Age of host
Utterback, W. W.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 3-11
Anaplasma marginale, cattle, prevalence with respect to breed, sex, age, management practices, and ecologic factors: Northern California
- Age of host
Vedy, J.; Sirol, J. C.; and Coulm, J., 1972, Medecine Trop., v. 32, Special number, 403-409
human onchocerciasis infection of retina resulting in white degenerating intra-retinal spots, only young people affected, no functional impairment
- Age of host
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human taeniasis, epidemiologic survey covering 1961-1970, suggested control measures: County Borsod, Hungary

- Age of host
 Villegas-Gonzalez, J.; and Fastag de Shor, A., 1974, *Bol. Med. Hosp. Inf.*, v. 31 (1), 35-49
Entamoeba histolytica, children, invasive amoebiasis, pathologic review of autopsies; comparison axenic and monoxenic cultures, multiple enzymes present, relationship between acid phosphatase and invasive capacity of parasite
- Age of host
 Visco, R. J.; Corwin, R. M.; and Selby, L. A., 1977, *J. Am. Vet. Med. Ass.*, v. 170 (8), 835-837
 intestinal parasites of dogs, prevalence, effect of host age, sex and neutering: Univ. Missouri Vet. Teaching Hospital
- Age of host
 Volokh, A. M.; and Samarskii, S. L., 1977, *Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool.* (3), 89-90
Stichorchis subtriquetus, *Travassosius rufus*, incidence in relation to sex and age of host [Castor fiber]: Middle Dnieper area
- Age of host
 Waldeland, H., 1977, *Acta Vet. Scand.*, v. 18 (1), 91-97
Toxoplasma gondii, sheep flocks, reproductive loss in specific age groups, apparently no transmission between sheep, probably transmitted by silage
- Age of host
 Waldeland, H., 1977, *Acta Vet. Scand.*, v. 18 (2), 227-236
Toxoplasma, four breeding flocks of sheep, long-term (3-6 years) epidemiological studies, abnormal reproductive performance, increased prevalence with age, higher incidence in lowland pastures than in mountain pastures, lower incidence in summer than in winter: Norway
- Age of host
 Wallace, G. D., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 48-53
Toxoplasma gondii, human, prevalence of dye-test antibody in relation to host age and ethnic group, generally high except for people of Japanese ancestry living in Hawaii and for aborigines and ethnic Chinese living in Taiwan: Pacific Islands
- Age of host
 Walzer, P. D.; et al., 1976, *National Cancer Inst. Monograph* (43), 65-74
Pneumocystis carinii, survey of 51 cases over 3-year period in children under 5 years of age, association with primary immune deficiency diseases in 25 cases, striking occurrence in families, defects in both humoral and cellular immunity appear to be operative
- Age of host
 Wandera, J. G., 1976, *Vet. Rec.*, v. 99 (18), 348-351
Spirocerca lupi, dogs, incidence, pathological variations, oesophageal sarcomas, age of host, site of incidence, 11 year period: Kenya
- Age of host
 Weinmann, C. J.; et al., 1973, *J. Wildlife Dis.*, v. 9 (3), 213-220
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- Age of host
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- Age of host
 Wiger, R., 1971, *Norwegian J. Zool.*, v. 19 (1), 83-87
Trypanosoma sp. from *Lemmus lemmus*, description, incidence, age of host; unable to experimentally infect *Microtus oeconomus*: More-Romsdal county, Norway
- Age of host
 Wijers, D. J. B., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (3), 313-331
 bancroftian filariasis, humans, extensive prevalence survey of adult males for microfilaremia and pathologic evidence of infection: Coast Province, Kenya
- Age of host
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human Schistosoma haematobium, statistics of epidemiologic survey for prevalence and intensity of infection in native community in laterite plateau area of McCarthy Island Division, The Gambia
- Age of host
 Wilkins, H. A., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 294 [Demonstration]
Schistosoma haematobium, egg counts in children under 10 varied with season suggesting that worm burdens are influenced both by protective immunity and patterns of water contact
- Age of host
 Wilkins, H. A.; and Capron, A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 186-195
Schistosoma haematobium in Gambian community, relation of antibody levels to age (indirect fluorescent antibody and indirect haemagglutination tests), seasonal changes in antibody level, relation of antibody to subsequent changes in egg output, results suggest that serologic parameters may have some relationship to protective immunity and immune response should be considered as factor in epidemiologic studies
- Age of host
 Wilson, R. J. M.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 308-312
Plasmodium falciparum, human, precipitating antibody response to malarial S-antigens, age distribution, other factors affecting production and detection of such antibodies: The Gambia

- Age of host
Wilson, R. J. M.; and Pasvol, G., 1977, J. Protozool., v. 24 (2), Suppl., 4A-5A [Abstract] Plasmodium falciparum, distribution and growth compared in human red blood cells containing adult vs. fetal hemoglobins, results suggest that young metabolically active cells may be preferentially invaded but that parasite growth was impaired in fetal cells, this may be an important protective mechanism for both fetus and newborn
- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of host
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- Age of parasite
Andersen, K., 1973, Norwegian J. Zool., v. 21 (4), 341-350 Diphyllobothrium dendriticum plerocercoids in Mesocricetus auratus, Larus canus, and Alopex lagopus (exper. in all), frequency of primary vs. secondary strobilae in relation to host, age of worms, and density of infection compared with D. latum in M. auratus and A. lagopus and D. ditremum in M. auratus, primary strobilae appear in some individuals in response to unfavorable conditions; regeneration and/or growth studies show that rounded posterior segment in young D. dendriticum is not necessarily posterior 'end' of plerocercoid
- Age of parasite
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- Age of parasite
Arfaa, F.; and Ghadirian, E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 866-871
Ascaris lumbricoides, statistics of epidemiologic survey and mass therapy using pyrantel pamoate in 6 rural villages in central Iran
- Age of parasite
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Taenia pisiformis in rabbits (exper.), growth and development of rostellar hooks, hook differentiation and size related to age of cysticerci, ability to resist effects of digestive enzymes in vitro, and ability to infect dogs, variability in hook sizes attributable to external influences suggests caution in use of hook lengths as taxonomic characters
- Age of parasite
Bone, L. W.; et al., 1977, Exper. Parasitol., v. 42 (1), 82-86
Nippostrongylus brasiliensis, pheromone production and response, effect of parasite age, time of day periodicity not demonstrated
- Age of parasite
Bristol, J. R.; and Canaris, A. G., 1977, J. Parasitol., v. 63 (5), 940-941
Brachylaime microti, in vitro oxygen consumption, effects of age, exogenous glucose, and cyanide
- Age of parasite
Coelho, P. M. Z.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 161
Schistosoma mansoni, migration of schistosomula collected from hamsters and inoculated intraperitoneally into mice, decreased migratory capacity with increased larval age
- Age of parasite
Coman, B. J.; and Rickard, M. D., 1977, Internat. J. Parasitol., v. 7 (1), 15-20
Taenia pisiformis eggs, ageing process, 4 stages with varying ability to hatch and to infect and develop in rabbits, comparison of in vitro and in vivo estimates of viability, failure of 'senescent' eggs to produce immunity to challenge infection
- Age of parasite
Crystal, M. M., 1977, Ann. Entom. Soc. Am., v. 70 (5), 702-706
Cochliomyia hominivorax, fly vigor measured by the flight mill technique, flight performance greater in females than males, linear correlation between age of flies and percentage of individuals with partial or complete loss of wings
- Age of parasite
Crystal, M. M.; and Ramirez, R., 1975, J. Med. Entom., v. 12 (4), 423-425
Cochliomyia hominivorax, males and females, chemosterilization with N,N'tetramethylenebis(1-aziridinecarboxamide), less chemosterilant required with increasing age, survival per given dose independent of age when treated
- Age of parasite
Davies, R. W.; and Everett, R. P., 1977, Canad. J. Zool., v. 55 (3), 620-627
Nephelopsis obscura, life history, growth and age structure related to seasonal changes, seasonal population movements from deep-water zone to shore zone; no direct correlation between cocoon production and water temperature: Newsome Pond and Jail Pond, Alberta, Canada
- Age of parasite
Desowitz, R. S.; Barnwell, J. W., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 475-476
Plasmodium berghiei very young forms, deep vascular sequestration in heart and kidney of white rat equal to or greater than that in bone marrow, lung, liver, and spleen; hitherto unrecorded site of schizont concentration in lung
- Age of parasite
Faubert, G. M., 1976, Immunology, v. 30 (4), 485-489
Trichinella spiralis, depression of plaque-forming cells to sheep red blood cells by new-born larvae in vivo (mice) and in vitro, transitory phenomenon
- Age of parasite
Heller, G.; and Weise, R. W., 1973, J. Protozool., v. 20 (1), 61-64
Gregarina sp. from *Udeopsylla nigra*, scanning electron microscopy, patterns of epicytic folds in old vs. young gamonts, relationship to motility and development
- Age of parasite
Henderson, D., 1977, Parasitology, v. 75 (3), 277-284
Hymenolepis diminuta, in vitro rate of absorption of glucose/unit dry weight of worm falls with increasing worm age, with increasing worm weight, and with increasing infection density
- Age of parasite
Hermoso Yanez, R.; and Monteoliva Hernandez, M., 1973, Rev. Iber. Parasitol., v. 33 (2-3), 427-437
Ascaris lumbricoides, perivisceral fluid, glucose and trehalose content apparently independent of maturity of parasite or nutritive state of swine host
- Age of parasite
Hipeau-Jacquotte, R., 1977, Marine Biol., v. 44 (1), 57-63
Pachypygus gibber, pelagic larvae, phototropic reactions (threshold reaction, orientation towards light, speed and form of motility) based on age and stage of parasite
- Age of parasite
Hopkins, D. E.; and Chamberlain, W. F., 1976, Southwest Entom., v. 1 (3), 114-117
Haematobia irritans, exposure of egg, larval, and pupal stages to manure of diflubenzuron treated cattle, inhibited development during early part of 3rd instar

- Age of parasite
Howard, R. J., 1977, *Parasitology*, v. 75 (2), 241-249
Hymenolepis microstoma, change in worm susceptibility to host's resistance with increasing age of parasite suggested by experiments with worm growth in primary and secondary infection, with worms transplanted into naive or resistant mice, and with cortisone treatment of hosts
- Age of parasite
Humiczewska, M., 1975, *Folia Histochem. et Cytochem.*, v. 13 (1-2), 37-50
Fasciola hepatica, miracidium, dehydrogenase activity, differences in occurrence and intensity depending on age of larvae, oxidative pathways
- Age of parasite
Humiczewska, M., 1975, *Folia Histochem. et Cytochem.*, v. 13 (1-2), 51-60
Fasciola hepatica, sporocysts in various stages of development, oxidase and dehydrogenase activity in various tissues, metabolic pathways
- Age of parasite
Humiczewska, M., 1975, *Folia Histochem. et Cytochem.*, v. 13 (3-4), 161-174
Fasciola hepatica, rediae in various stages of development, oxidases and dehydrogenases in various tissues, metabolic pathways
- Age of parasite
Humiczewska, M., 1975, *Folia Histochem. et Cytochem.*, v. 13 (3-4), 213-229
Fasciola hepatica, cercariae in various stages of development, metacercariae, oxidases and dehydrogenases in various tissues, metabolic pathways
- Age of parasite
Kabil, S. M., 1976, *J. Trop. Med. and Hyg.*, v. 79 (9), 205-206
Schistosoma mansoni adult female, mouse (exper.) host complement detected in parasite tegument
- Age of parasite
Lawson, J. R., 1977, *Parasitology*, v. 75 (2), xi-xii [Abstract]
Schistosoma mansoni cercariae, survival in relation to environmental temperature, activity pattern, infectivity, glycogen content
- Age of parasite
Madden, P. A.; and Tromba, F. G., 1976, *J. Parasitol.*, v. 62 (2), 265-271
Ascaris suum adults of known ages recovered from pigs experimentally infected with eggs from the same stock, variation in number, size, and shape of lip denticles, concluded that denticles are functional and become worn through use
- Age of parasite
Mason, P. R.; and Fripp, P. J., 1976, *J. Parasitol.*, v. 62 (5), 721-727
Schistosoma mansoni, miracidial movement in relation to age, temperature, pH, light intensity, light shock, and snail-conditioned water, dark-ground photographic technique
- Age of parasite
Matthews, B. E.; and Croll, N. A., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 608 [Letter]
Ancylostoma tubaeforme, no consistent trends established between 'biological performance' of larvae and age of adult parasites
- Age of parasite
Mikacic, D., 1973, *Acta Parasitol. Iugoslavica*, v. 4 (1), 25-26
Fasciola hepatica, growth in rabbits (exper.), size not reliable criterion for estimating age without large number of specimens
- Age of parasite
Milbrink, G., 1975, *Rep. (54) Inst. Freshwater Research Drottningholm, Sweden*, 36-51
Caryophyllaeus laticeps, seasonal incidence, ages of parasite and worm burden in bream; estimating host diet of intermediate hosts from parasite incidence; *C. laticeps* incidence in relation to *Ligula intestinalis* incidence
- Age of parasite
Mills, C. A., 1976, *Parasitology*, v. 73 (2), vi-vii [Abstract]
Transversotrema patialense, survival and fecundity on *Brachydanio rerio* (exper.), age-dependent but not density-dependent, temperature optimum at 23°C., survival reduced on small hosts, growth in size of adult fluke
- Age of parasite
Monteoliva Hernandez, M., 1973, *Rev. Iber. Parasitol.*, v. 33 (4), 599-606
Ascaris, motility studies in vitro, motility longer with glucose than when fasting; longer at 25°C than at 37°C; younger worms more active than mature ones
- Age of parasite
Monteoliva, M.; Benito, M.; and Hermoso, R., 1973, *Rev. Iber. Parasitol.*, v. 33 (4), 515-524
Ascaris lumbricoides, perivisceral liquid, statistical analysis of content of proteins, hemoglobin and "adenine derivatives"; protein and hemoglobin content influenced by intestinal content and diet of host but not by maturity of parasite; types of proteins dependent on weight and maturity of parasite
- Age of parasite
Moore, M. N.; and Halton, D. W., 1976, *Exper. Parasitol.*, v. 40 (2), 212-224
Fasciola hepatica, enzyme histochemistry in juvenile vs. adult flukes and in infected mouse liver (cytopathological changes), effects of exper. starvation of flukes on levels of staining and distribution of hydrolytic enzymes
- Age of parasite
Musoke, A. J.; and Williams, J. F., 1975, *Immunology*, v. 29 (5), 855-866
Taenia taeniaeformis, rats, sequential appearance of protective immunoglobulins studied in passive transfer experiments, mechanism of action of 7Sy2a antibodies, susceptibility of early postoncospherical stages to antibody-mediated attack was complement dependent

Age of parasite

Ogunji, F. O.; and Dipeolu, O. O., 1977, *Ztschr. Parasitenk.*, v. 51 (3), 285-288
Amblyomma variegatum, *Hyalomma rufipes*, *Boophilus decoloratus*, larval feeding on scrotum of sheep better than on ears, economical for rearing large numbers of ticks; greatest number of larvae engorged when fed within 1-4 days of hatching

Age of parasite

Pappas, P. W.; and Mayer, L. P., 1976, *J. Parasitol.*, v. 62 (2), 329-332
Hymenolepis microstoma transplanted into uninfected recipient mice, evidence that ability to elicit histopathological host response and to migrate from small intestine to bile duct is not limited to young developing worms

Age of parasite

Parshad, V. R.; and Guraya, S. S., 1976, *J. Helminth.*, v. 50 (1), 11-15
Cotylophoron cotylophorum, intestinal (immature) vs. ruminal (mature) stages, histochemical comparison of lipid composition

Age of parasite

Prah, S. K.; and James, C., 1977, *J. Helminth.*, v. 51 (1), 73-85
Schistosoma mansoni, *S. haematobium*, influence of temperature, ultraviolet radiation, and aging on survival and infectivity of miracidia, profound effect but unlikely to be of importance in transmission in the field

Age of parasite

Reisen, W. K.; Kennedy, M. L.; and Reisen, N. T., 1976, *J. Parasitol.*, v. 62 (4), 628-635
 winter ecology of ectoparasites collected from hibernating *Myotis velifer* (incidence, intensity, monthly changes, parasite and host sex ratio, interspecific associations, parasite age structure, etc.): Harmon County, southwestern Oklahoma

Age of parasite

Ross, G. C., 1976, *Comp. Biochem. and Physiol.*, v. 55 (3B), 343-346
Schistosoma spp., isoenzymes, lactate dehydrogenase, malate dehydrogenase, acid phosphatase, isoelectric focusing in polyacrylamide gel, possible applications in taxonomy and diagnosis, factors considered in assessing results (include age and sex of parasite, host relationships, etc.)

Age of parasite

Rust, R. W., 1973, *J. Med. Entom.*, v. 10 (2), 169-175
 ectoparasitic mites of *Thomomys bottae*, mite age structure, seasonal fluctuations, effect of host macro- and microenvironment on host specificity: Davis, California

Age of parasite

Schulz-Key, H., 1975, *Tropenmed. u. Parasitol.*, v. 26 (1), 60-69
Onchocerca flexuosa, development of nodules on hide of *Cervus elaphus*, relationship to age and sex of parasites, parasitic reproduction within nodules

Age of parasite

Smith, D. H., 1973, *J. Med. Entom.*, v. 10 (5), 481
Cuterebra approximata, technique for laboratory mating, younger males more vigorous and fertile

Age of parasite

Soleim, Ø., 1976, *Norwegian J. Zool.*, v. 24 (4), 319-323
Thynnascaris adunca from *Gadus morhua*, comparison of 2 populations, relative age of parasites indicates that cod in warmer Norwegian coastal waters is subject to loss of parasites and re-infection more often than colder Barents Sea cod

Age of parasite

Somers, J. A.; Shorey, H. H.; and Gaston, L. K., 1977, *J. Chem. Ecol.*, v. 3 (4), 467-474
Rhabditis pellio, quantitative bioassay for female-produced attractant pheromone by measuring male migration response, age in relation to production and response, daily rhythms

Age of parasite

Spaldonova, R.; and Corba, J., 1977, *Biologia, Bratislava, s. B, Zool.* (4), v. 32 (11), 855-860

Trichinella spiralis, intestinal stages, mice, efficacy of cambendazole, decreases as worms mature, females more susceptible

Age of parasite

Srivastava, G. C., 1974, *Haryana Agric. Univ. J. Research*, v. 4 (4), 277-280
Dicrocoelium dendriticum, total egg count per individual worm, higher in naturally infected than in experimentally infected animals, higher in older worms

Age of parasite

Stewart, T. B.; Hale, O. M.; and Marti, O. G., 1975, *Am. J. Vet. Research*, v. 36 (6), 771-772
Hyostromylyx rubidus, pigs (exper.), treatment with coated vs. uncoated formulations of dichlorvos, efficacious against adult worms but little or no activity against 5- or 15-day-old worms, not as effective in sows as in barrows and gilts

Age of parasite

Swietlikowski, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 95-101
Dictyocaulus viviparus, calves infected orally by larvae refrigerated 3 or 8 months; young larvae produce more severe disease; both ages cause similar immunological response; implications for overwintering, epizootiology, and self-cure

Age of parasite

Thomas, R. J.; Waller, P. J.; and Cottrill, B. R., 1975, *Research Vet. Sc.*, v. 19 (1), 113-114
Haemonchus contortus larvae used as source of antigen, decrease in antigenic potency following storage for 2 months at 5°C, no such decline in larvae killed by freezing and stored at -15°C, suggested that loss of potency with ageing may be partly responsible for increased worm populations in sheep in spring

- Age of parasite
Uchikawa, K., 1975, Eisei Dobutsu (Japan. J. San. Zool.), v. 26 (4), 207-212
Argas japonicus, biological data, laboratory reared on chickens, development, idiosomal lengths in various stages, age composition, sex ratio, size distribution
- Age of parasite
Whitfield, P. J.; and Anderson, R. M., 1977, Parasitology, v. 75 (2), viii-ix [Abstract]
Transversotrema patialense cercariae, activity patterns, age-dependent changes
- Age of parasite
Whitfield, P. J.; Anderson, R. M.; and Bundy, D. A. P., 1977, Parasitology, v. 75 (1), 9-30
Transversotrema patialense, cercarial behavior, activity patterns, age and temperature dependence, speed and duration, neural control and energetic significance
- Age of parasite
Wilson, P. A. G., 1976, Ztschr. Parasitenk., v. 49 (3), 243-252
Haemonchus contortus, Nippostrongylus brasiliensis, infective larvae, carbohydrate content and ageing process contrasted; carbohydrate level variation in H. contortus due to capacity to synthesize glycogen during ageing, low level in N. brasiliensis remains constant
- Age of parasite
Wright, A. C.; and Levy, C. K., 1974, J. Protozool., v. 21 (3), 424 [Abstract]
Eimeria falciformis, experiments to determine the extent to which age of unsporulated oocysts affects their responses to ^{60}Co gamma irradiation, possible effect of prior cold storage upon results
- Age of parasite
Yousif, F.; and Laemmler, G., 1975, Ztschr. Parasitenk., v. 47 (3), 191-201
Angiostrongylus cantonensis, factors influencing infectivity of first stage larvae to Biomphalaria glabrata, size of snails, number of larvae, age of larvae, individual or mass exposure, length of exposure, temperature, light
- Age of parasite
Zuckerman, B. M., 1976, Organ. Nematodes (Croll), 211-241
free-living nematodes as models for aging studies, may have implications for parasitology
- Agglutination. See Immunity, Agglutination.
- Air-borne diseases. See Disease transmission, Air.
- Albumin. See Proteins; Proteins, Blood.
- Alcoholism
Gudiol, F.; et al., 1974, Med. Clin., Barcelona, v. 63 (3), 125-137
human Trichinella spiralis, comprehensive resume of findings observed in 22 human infections (predominance of females, inverse relationship to alcoholic consumption, eosinophilia, changes in blood protein levels, metabolic activity of parasitized muscles, treatment with thiabendazole)
- Algeria
Dedet, J. P., 1975, Arch. Inst. Pasteur Tunis, v. 52 (1-2), 129-148
leishmaniasis, bibliography (1860-1974): Algerie
- Allergy. See Immunity, Allergy
- Altitude. [See also Pressure, Atmospheric]
- Altitude
Arnaudov, D.; et al., 1976, Vet. Med., Praha, v. 49, v. 21 (6), 375-384
Toxoplasma gondii, sheep, immunoepizootiological study by hemagglutination, indirect fluorescence, and microprecipitation reaction in agar gel; higher incidence in aborting ewes and in sheep in montane regions: Bulgaria; Czechoslovakia
- Altitude
Breev, K. A.; and Baratov, Sh. B., 1970, Parazitologia, Leningrad, v. 4 (3), 241-249
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- Altitude
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Anabolism. See Metabolism.

Anaemia. See Anemia.

Anaphylaxis. See Immunity, Allergy.

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Anemia. [See also Blood; Hemoglobin]

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Haemonchus contortus, Merino ewes and their lambs, epidemiology and pathogenic significance, faecal egg counts, worm burdens, haematological indices, clinical signs, levels of infective larvae on pasture, classical acute haemonchosis occurred during high rainfall periods, self-cure confirmed as flock phenomenon, importance of moderate infections: Naivasha, Kenya

Anemia, Nematoda

- Areekul, S., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 144-145
Ancylostoma caninum in dogs (exper.), estimation of blood loss caused by parasitemia using ⁵¹Cr-labelled red cells

Anemia, Nematoda

- Areekul, S.; et al., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 519-523
human hookworm anemia, assessment of blood loss, iron absorption and iron reabsorption in infected humans: Thailand

Anemia, Nematoda

- Areekul, S.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (2), 201-209
Ancylostoma ceylanicum, A. caninum, hookworm anemia in dogs (exper.) influenced by their iron reserve and dietary iron, no difference between effects of hookworm infection on iron metabolism in dogs with normal and deficient iron reserves

Anemia, Nematoda

- Areekul, S.; Devakul, K.; and Kanakakorn, K., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (3), 414 [Demonstration]
hookworm, amoebiasis, humans, effects of anemia on iron absorption compared in infected and control subjects

Anemia, Nematoda

- Areekul, S.; Pinyawatana, W.; and Kitkornphan, S., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (3), 386-390
hookworm, human, red cell and serum folate levels and folic acid absorption, impairment of folate absorption and iron deficiency anemia were probably primary and secondary causes of low serum folate content in these patients

Anemia, Nematoda

- Areekul, S.; Tipayamontri, U.; and Ukoskit, K., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (2), 230-235
Ancylostoma braziliense, dogs and cats (both exper.), measurements of blood loss through gastrointestinal tract with finding that A. braziliense caused relatively insignificant loss in these animals

- Anemia, Nematoda
Bruce-Tagoe, A. A.; et al., 1977, Trop. and Geogr. Med., v. 29 (3), 237-244
human malaria and hookworm, correlations with hematological values and anemia in survey of rural population in Ghana
- Anemia, Nematoda
de Carvalho, P., 1973, Pediat. Prat., S. Paulo, v. 44 (3-4), 93-98
Ancylostoma duodenale, acute infection with anemia in infant, diagnostic difficulties, therapy of blood transfusions and tetrachlorethylene: Sao Paulo, Brasil
- Anemia, Nematoda
Chamorro, H.; and Moizeszowicz, J., 1973, Bol. Chileno Parasitol., v. 28 (1-2), 24-30
hookworm anemia, clinical trials testing iron therapy: Argentina
- Anemia, Nematoda
Curtis, S. K., 1977, Vet. Med. and Small Animal Clin., v. 72 (5), 907-908
hookworms and flea infestation in dogs causing anemia and convulsive seizures
- Anemia, Nematoda
Dargie, J. D., 1975, Symposia Brit. Soc. Parasitol., v. 13, 1-26
helminth diseases of sheep, red cell and plasma protein metabolism, anaemia, applications of radioisotopic methods, extensive review with particular emphasis on Fasciola hepatica and Haemonchus contortus
- Anemia, Nematoda
Douglas, J.; and Tamanika, M., 1973, Papua N. Guinea Med. J., v. 16 (1), 54-58
human hookworm anemia, positive correlation between degree of hookworm infection and degree of anemia: Sogeri rubber tappers, Papua New Guinea
- Anemia, Nematoda
Garby, L.; and Areekul, S., 1974, Ann. Trop. Med. and Parasitol., v. 68 (4), 467-476
iron-deficiency anemia caused by hookworm, possible prevention by iron supplementation of fish-sauce (a widely used food product): Thailand
- Anemia, Nematoda
Hart, R. J.; and Wagner, A. M., 1971, Onderstepoort J. Vet. Research, v. 38 (2), 111-116
Gaigeria pachyscelis, sheep (exper.), pathological physiology (macrocytic normochromic anaemia, hypoproteinaemia, hypocalcaemia, hyperglycaemia, eosinophilia); some fatalities, due primarily to loss of blood
- Anemia, Nematoda
Hawley, T. G., 1973, N. Zealand Med. J. (489), v. 77, 95-97
Necator infestation in rural dwelling Fijians and Indians, relationship to mean hemoglobin levels
- Anemia, Nematoda
Inglessis, G., 1973, Arch. Inst. Cardiol. Mexico, v. 43 (1), 87-101
Necator [americanus] in children, evidence of cardiac pathology associated with parasitic anemia, reversal of symptoms when anemia treated: Venezuela
- Anemia, Nematoda
Inglessis, G., 1973, Arch. Inst. Cardiol. Mexico, v. 43 (4), 602-608
Necator [americanus], alterations in hemodynamic values and blood pressure associated with hookworm anemia in children: Venezuela
- Anemia, Nematoda
Lanari Zubiatur, F. J. B.; and Benavento de Benevenuto, N. Y., 1974, Medicina, Buenos Aires, v. 34 (3), 249-252
electrocardiographic correlation between the double Master test and voluntary hyperventilation in patients with severe chronic hookworm anemia
- Anemia, Nematoda
Langer, A.; and Hung, C. T., 1973, Obst. and Gynec., v. 42 (4), 564-567
human hookworm anemia associated with pregnancy, clinical management with tetrachlorethylene or with tetrachlorethylene and thiazobenzazole in Trichuris trichiura-associated infections
- Anemia, Nematoda
Migasena, S.; Gilles, H. M.; and Maeraith, B. G., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (4), 534-547
Ancylostoma caninum, experimental infections in dogs, study of interrelationships between larval infective dose, egg count and worm load; pathologic and hematologic changes
- Anemia, Nematoda
Naik, S. R.; et al., 1976, Digestion, v. 14 (2), 133-141
human gastric acid secretory responses to continuous infusion of histamine, laboratory trials to assess maximal acid output in patients with hookworm iron deficiency anemia
- Anemia, Nematoda
Nhonoli, A. M.; and Chukwuemeka, A. C., 1971, Med. J. Zambia, v. 5 (3), 95-101
analysis of electrocardiographic changes in patients with severe hookworm anemia before and after treatment with alcopar and tetrachlorethylene: Zambia
- Anemia, Nematoda
Saraya, A. K.; and Tandon, B. N., 1975, Progr. Drug Research, v. 19, 108-118
human hookworm infection, study of associated anemia and intestinal malabsorption
- Anemia, Nematoda
Sroczyński, J., 1977, Polski Tygod. Lekar., v. 32 (16), 589-591
Necator americanus, [Wuchereria] bancrofti, Schistosoma mansoni, studies on hospitalized Africans to assess variations in blood picture during infections showed anemia in hookworm to be mainly iron deficiency while schistosomiasis caused protein deficiency, eosinophilia of peripheral origin rather than correlated with changes in bone marrow

Anemia, Nematoda

Tantengco, V. O.; et al., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (2), 210-221

hookworm, analysis of serum and red cell folate activity and its relationship to hemoglobin concentration in infected and hookworm free children

Anemia, Nematoda

Tantengco, V. O.; et al., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (4), 524-533

Ascaris, Trichuris, hookworm infections apparently not contributory cause of nutritional anemia in schoolchildren: Philippine Islands

Anemia, Nematoda

Zigas, V., 1973, Papua N. Guinea Med. J., v. 16 (1), 51-53

human hookworm anemia, positive correlation between hemoglobin levels and degree of infection: Southern Highlands of Papua New Guinea

Anemia, Protozoa

Anosa, V.; Jennings, F. W.; and Urquhart, G. M., 1977, J. Comp. Path., v. 87 (4), 569-579

Trypanosoma brucei, mice, anemia slightly increased in splenectomized mice compared to intact mice; spleen not essential for red cell destruction

Anemia, Protozoa

Areekul, S.; Devakul, K.; and Kanakakorn, K., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 414 [Demonstration]

hookworm, amoebiasis, humans, effects of anemia on iron absorption compared in infected and control subjects

Anemia, Protozoa

Assoku, R. K. G., 1977, Canad. Fed. Biol. Soc., Programme and Proc. 20. Ann. Meet., v. 20, 118 [Abstract]

soluble Trypanosoma evansi antigen produced haemolytic anemia, rats, immunologically-mediated mechanism may be responsible for development of anemia

Anemia, Protozoa

Ayala, S. C.; and Spain, J. L., 1976, J. Parasitol., v. 62 (2), 177-189

Plasmodium colombiense sp. n. in Anolis aeneus, host blood pictures, parasitemia, parasite structure and structural variance, infection states, host population structure, epidemiology: western Colombia (Cauca River valley basin)

Anemia, Protozoa

Botros, B. A. M.; Moch, R. W.; and Barsoum, I. S., 1975, Am. J. Vet. Research, v. 36 (3), 293-296

Babesia gibsoni, splenectomized and nonsplenectomized dogs (exper.), inoculation with fresh and preserved blood, prepatent period, clinical signs, duration of parasitemia, gross pathologic changes, clinicopathologic changes, histopathologic features, relationship of age of dogs to pathogenicity of infection

Anemia, Protozoa

Bradley, R. L., 1976, Vet. Med. and Small Animal Clin., v. 71 (9), 1233-1234

Haemobartonella felis, feline infectious anemia, mixed with leukemia virus, chloramphenicol, tetracycline, fair results

Anemia, Protozoa

Brown, L. A.; and Losos, G. J., 1977, Research Vet. Sc., v. 23 (2), 196-203

Trypanosoma congolense and T. brucei, comparative pathology in both bled and non-bled albino rats (exper.): parasitemia, packed cell volumes, weight of spleen and lymph, histology of thymus, spleen, lymph nodes, and bone marrow

Anemia, Protozoa

Bruce-Tagoe, A. A.; et al., 1977, Trop. and Geogr. Med., v. 29 (3), 237-244

human malaria and hookworm, correlations with hematological values and anemia in survey of rural population in Ghana

Anemia, Protozoa

Bundza, A.; et al., 1976, Canad. Vet. J., v. 17 (10), 267-270

Haemobartonella canis, dog, Coombs' positive anemia following splenectomy

Anemia, Protozoa

Callow, L. L.; and Pepper, P. M., 1974, Austral. Vet. J., v. 50 (1), 1-5

Babesia argentina, cattle, measurement of and correlations between fever, changes in the packed cell volume and parasitaemia in evaluation of susceptibility to infection; results suggest that most or all of anemia of B. argentina infections is related to growth and multiplication of parasite, and not to an autoimmune mechanism

Anemia, Protozoa

Coleman, R. M.; et al., 1976, J. Parasitol., v. 62 (1), 138-140

Plasmodium berghei, transitory but heightened rate of destruction of normal transfused erythrocytes in infected rats

Anemia, Protozoa

Corrier, D. E.; and Adams, L. G., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 60-65

Anaplasma marginale, Babesia bigemina, concurrent infections in calves (exper.), clinical course, serological response, pathological manifestations

Anemia, Protozoa

Cox, H. W.; and Calaf-Iturri, G., 1976, Ann. Trop. Med. and Parasitol., v. 70 (1), 73-79

Haemobartonella muris in rats, Eperythrozoon coccoides in mice, production of essentially same disease characterized by anemia with splenomegaly and erythrophagocytosis associated with presence of cold-active haemagglutinin, serum antigen, and antibody to serum in blood

- Anemia, Protozoa
Desser, S. S.; and Ryckman, A. K., 1976, *Canad. J. Zool.*, v. 54 (5), 634-643
Leucocytotoxoon simondi, development in captive *Branta canadensis maxima*, B. c. interior, and *Anser domesticus* exposed to natural infection on shores of Lake Sasajewan, Algonquin Park, Ontario, some anemia but no other pathology, no megaloschizonts or elongate gametocytes seen, identity confirmed by experimental infections of goslings and ducklings with gosling-derived sporozoites
- Anemia, Protozoa
Diehl, K.; and Berlinger, R., 1976, *Med. Welt.*, v. 27 (7), 315-319
acute fulminating toxoplasmosis, youth, pyrimethamine-induced megaloblastic anemia, case report: Germany
- Anemia, Protozoa
Dolan, T. T., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 274 [Demonstration]
Babesia divergens in calves (exper.), *B. rodhaini* in rats (exper.), thrombocytopenia with marked hemolytic anemia
- Anemia, Protozoa
El-On, J.; and Greenblatt, C. L., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 19 [Demonstration]
Trypanosoma lewisi, rats, increased susceptibility to infection when given cyclophosphamide (Cyl-rats) as immuno-suppressive, possible role of exoantigens in development of anemia, precipitating antibodies to *Trypanosoma lewisi* in rabbits inoculated with plasma from Cyl rats whether infected or not
- Anemia, Protozoa
Finch, S. C.; and Jonas, A. M., 1973, *J. Reticuloendothel. Soc.*, v. 13 (1), 20-26
Hemobartonella muris, rats, activation of latent infection with development of hemolytic anemia after parenteral administration of ethyl palmitate, effect probably due to development of acute splenic necrosis with loss of splenic sinusoidal function
- Anemia, Protozoa
Harvey, J. W.; and Gaskin, J. M., 1977, *J. Am. Animal Hosp. Ass.*, v. 13 (1), 28-38
Haemobartonella felis, cats (exper.), hematological studies, time course of disease
- Anemia, Protozoa
Hawking, F.; Wilson, A. J.; and Paris, J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 289 [Letter]
Trypanosoma congolense, effect of dexamethasone upon infection in calves, results suggest that anemia was not due to auto-immunization but probably due to direct toxic action of trypanosomes on blood
- Anemia, Protozoa
Hayes, H. M.; and Priester, W. A., 1973, *J. Small Animal Practice*, v. 14 (12), 797-804
Haemobartonella felis and/or *Eperythrozoon felis*, feline infectious anaemia, relative risk according to age, sex and breed of cats, prior disease, seasonal occurrence, mortality, pattern of risk suggests horizontal transmission probably by direct contact
- Anemia, Protozoa
Holmes, P. H.; and Jennings, F. W., 1976, *Pathophysiol. Parasit. Infect.*, 199-210
[*Trypanosoma*] *congolense*, *T. brucei*, rabbits infected and subsequently treated with diminazene aceturate, haematological indices, changes in circulating red cell volume and plasma volume, changes in erythropoiesis, red cell survival studies, dramatic effects of treatment on anemia, similar preliminary results with *T. congolense* in Zebu calves
- Anemia, Protozoa
Holmes, P. H.; and Mamo, E., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 274 [Abstract]
Trypanosoma congolense in experimentally infected zebu cattle, dynamics of development of trypanosomal anemia
- Anemia, Protozoa
Hooshmand-Rad, P., 1976, *Research Vet. Sc.*, v. 20 (3), 324-329
Theileria annulata, intact susceptible calves, premune calves following splenectomy, pathogenesis of anemia, role of erythrocytic forms and schizonts, involvement of auto-immune reaction is proposed
- Anemia, Protozoa
Hussein, H. S., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 103-108
Babesia hylomysci, mice, ⁵⁹Fe labelling of hemoglobin demonstrating parasite's preference for mature erythrocytes, direct destruction of erythrocytes as main cause of anemia and autoimmune reaction as probable factor
- Anemia, Protozoa
Ilemobade, A. A.; and Blotkamp, C., 1977, *Vet. Rec.*, v. 101 (8), 153-154
Eperythrozoon ovis, sheep (nat. and exper.), anaemia, apparent endemic stability in local flocks: Shika Agricultural Research Station near Zaria, Nigeria
- Anemia, Protozoa
Jarvinen, J. A.; and Dalmasso, A. P., 1977, *Exper. Parasitol.*, v. 43 (1), 203-210
Trypanosoma musculi, mice, development of mild anemia, evidence indicating participation of immunological mechanism, erythrocytes had bound immunoglobulins and complement component 3, intravascular hemolysis by complement was not a mechanism of cell destruction
- Anemia, Protozoa
Jenkins, G. C.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 437-438 [Demonstration]
Trypanosoma brucei, rabbits, haematological observations
- Anemia, Protozoa
Jenkins, G. C.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 154 [Abstract]
[*trypanosoma*] *brucei*-infected rabbits, anemia associated with infection due to hemolytic mechanism either of immunologic or micro-angiopathic nature

- Anemia, Protozoa**
 Jennings, F. W.; et al., 1974, *Research Vet. Sc.*, v. 16 (1), 70-76
Trypanosoma brucei, rats, mice, description of anemia, results indicative of hemolytic origin
- Anemia, Protozoa**
 Kobayashi, A.; Tizard, I. R.; and Woo, P. T. K., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 401-406
Trypanosoma congolense, calves, anemia proved to be of immunological origin, antigen-antibody-complement complexes deposited on surface of erythrocytes results in their immune elimination and leads to clinical anemia
- Anemia, Protozoa**
 Lewinsohn, R., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 51-56
Schistosoma mansoni and *Plasmodium berghei yoelii* in mice (exper.), dynamics of anemia resulting from mixed infections
- Anemia, Protozoa**
 McGhee, R. B., 1976, *Exper. Parasitol.*, v. 39 (1), 88-94
Plasmodium gallinaceum-infected immunoincompetent chicken embryos, changes in blood picture in response to injection of serum from hyperimmunized chickens, results suggest definite role of immunity in anemia accompanying malaria, failure to clarify question of autoimmunity
- Anemia, Protozoa**
 McHardy, N., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 301-306
Babesia rodhaini, mice, stimulation of erythropoiesis can have beneficial effect
- Anemia, Protozoa**
 McHardy, N., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (1), 51-57
Anaplasma marginale, calves, beneficial effects of injecting anti-erythrocyte serum more pronounced in intact than splenectomized animals, no differences in immune responses noticed
- Anemia, Protozoa**
 Mahrt, J. L.; and Fayer, R., 1975, *J. Parasitol.*, v. 61 (5), 967-969
Sarcocystis fusiformis, calves (exper.), acute phase of infection, hematologic and serum enzyme changes: oligocythemic anemia, leukocytic shift to the left, elevation of serum SGOT, LDH, and CPK levels
- Anemia, Protozoa**
 Mamo, E.; and Holmes, P. H., 1975, *Research Vet. Sc.*, v. 18 (1), 105-106
Trypanosoma congolense, chronically infected Ethiopian Zebu cattle, erythrokinetics, anemia due principally to massive loss of red cells from circulation
- Anemia, Protozoa**
 Maxie, M. G.; Losos, G. J.; and Tabel, H., 1976, *Pathophysiol. Parasit. Infect.*, 183-198
Trypanosoma congolense, *T. vivax*, cattle, development of macrocytic normochromic anemia, leukopenia, and persistent thrombocytopenia, significant differences in response of cattle to the two species
- Anemia, Protozoa**
 Moulton, J. E.; and Sollod, A. E., 1976, *Am. J. Vet. Research*, v. 37 (7), 791-802
Trypanosoma brucei, calves (exper.), clinical changes, parasitemia, antibody titration (indirect fluorescent antibody technique), IgG and IgM, histopathology
- Anemia, Protozoa**
 Murray, M.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 276-277 [Abstract]
Trypanosoma brucei, pathology in rats: progressive alteration in immunological apparatus leading to immunosuppressed state to other antigens; anemia; specific organ damage and failure
- Anemia, Protozoa**
 Murray, M.; et al., 1974, *Research Vet. Sc.*, v. 16 (1), 77-84
Trypanosoma brucei, 3 aspects of pathology in rats: progressive alteration in immunological apparatus of lymph nodes, spleen, and thymus, increase in activity of mononuclear phagocytic system; haemopoietic system changes, haemolytic anemia; specific organ damage (heart most markedly affected)
- Anemia, Protozoa**
 Musoke, A. J.; Cox, H. W.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (6), 1081-1088
Plasmodium chabaudi, rats, antigens and antibodies found associated with anemia, splenomegaly, and glomerulonephritis, suggested that soluble complexes of parasite antigen and antibody may have been causal in this syndrome
- Anemia, Protozoa**
 Poole, D. B. R.; et al., 1976, *Vet. Rec.*, v. 99 (24), 481
Eperythrozoon wenyoni, cattle, clinical signs associated with anaemia
- Anemia, Protozoa**
 Prusek, W.; et al., 1972, *Pediat. Polska*, v. 47 (2), 155-158
 anemias resulting from giardiasis in children, rapid improvement after antiparasitic therapy
- Anemia, Protozoa**
 Prusek, W.; and Krajewska-Radomska, G., 1971, *Pediat. Polska*, v. 46 (10), 1299-1301
 giardiasis in small child with accompanying severe hypochromic anemia, clinical case report: Wroclaw, Poland
- Anemia, Protozoa**
 Purnell, R. E.; Brocklesby, D. W.; and Young, E. R., 1976, *Vet. Rec.*, v. 98 (20), 411
Eperythrozoon wenyoni, calf (blood), possible cause of anemia in British cattle

Anemia, Protozoa

Ranatunga, P.; and Wanduragala, L., 1972, Brit. Vet. J., v. 128 (1), 9-18

Babesia bigemina, Anaplasma centrale, pre-munization of Jersey cattle imported to Ceylon from New Zealand, reactions and haematology

Anemia, Protozoa

Saror, D. I., 1976, Vet. Rec., v. 98 (10), 196
Trypanosoma[a] vivax, Trypanosom[a] congolense, plasma copper levels determined in exper. infected cattle, neither iron nor copper deficiencies are significant in the pathogenesis of bovine trypanosomiasis

Anemia, Protozoa

Semka, Z.; and Rogowska, W., 1976, Med. Wet., v. 32 (9), 523-524

Eperythrozoon ovis, imported sheep, blood values, anemia: Poland

Anemia, Protozoa

Soni, J. L.; and Cox, H. W., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 423-430

Plasmodium gallinaceum, chickens, soluble complexes of serum antigen and its antibody may be mediator of acute anemia, serologic identity of serum antigen from malarious chickens and from Babesia rodhaini-infected rats and its distinction from parasite antigen suggest that it might be an autoantigenic macroglobulin

Anemia, Protozoa

Srichaikul, T.; Siriasawakul, T.; and Poshya-chinda, M., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (3), 244-246

Plasmodium falciparum in humans, defect in hemoglobin synthesis during infection, effect on normoblastic development in vitro, possible role of complement in depression of erythropoiesis

Anemia, Protozoa

Topley, E.; Knight, R.; and Woodruff, A. W., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 51-54

malaria patients, direct antiglobulin test and immunoconglutinin titres, possible significance of results in understanding mechanism of anemia

Anemia, Protozoa

Theakston, R. D. G.; and Fletcher, K. A., 1971, Ann. Trop. Med. and Parasitol., v. 65 (4), 441-450

Plasmodium berghei, preference for young mature erythrocytes as opposed to more mature cells, dynamics of hemolysis, isotopic tracer techniques

Anemia, Protozoa

Tizard, I. R.; et al., 1977, Experientia, v. 33 (7), 901-902

Trypanosoma congolense, hemolytic activity is due to presence of free fatty acids generated by action of phospholipase A on endogenous phosphatidyl choline, some lysolecithin also contributes to lytic activity, T. lewisi is devoid of phospholipase A and does not generate free fatty acids and is therefore non-hemolytic

Anemia, Protozoa

Washburn, K. W., 1975, Avian Dis., v. 19 (4), 791-801

Eimeria tenella, chickens with mutant and normal hemoglobin types compared under conditions of hematopoietic stress from coccidiosis infection and blood loss from mechanical bleeding

Anemia, Protozoa

Woodruff, A. W., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 313-328

mechanisms involved in anemia associated with infection (schistosomiasis, kala-azar, malaria, trypanosomiasis) and splenomegaly in tropics, complement activation leading to hemolysis and splenomegaly due to erythrophagocytosis, review

Anemia, Protozoa

Woodruff, A. W.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 329-337

Trypanosom[a] rhodesiense, human, mechanism of anemia, complement coating of erythrocytes and subsequent haemolysis, splenic enlargement due to erythrophagocytosis within spleen

Anemia, Protozoa

Woodruff, A. W.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 21 [Demonstration]

African trypanosomiasis in man associated with anemia, infection eradicated with mel B therapy after unsuccessful course of suramin

Anemia, Protozoa

Wright, I. G., 1973, Research Vet. Sc., v. 14 (1), 29-34

Babesia argentina, B. babesia, splenectomised calves (exper.), haematology

Anemia, Protozoa

Wyatt, R. D.; Ruff, M. D.; and Page, R. K., 1975, Avian Dis., v. 19 (4), 730-740

chicks, interaction of aflatoxin with Eimeria tenella infection and monensin: E. tenella and aflatoxin in combination significantly increased mortality and weight depression, and caused more severely reduced hemoglobin, packed cell volume, and plasma pigmentation; monensin sodium did not completely prevent mortality and weight depression in a mixed infection; coccidial lesion scores were less for combination of E. tenella and aflatoxicosis than for coccidiosis alone

Anemia, Trematoda

Badran, I.; et al., 1973, Med. J. Cairo Univ., v. 41 (4), 245-268

extensive clinical review of human schistosomal proctocolonic polyposis, medical treatment with ambilhar and iron therapy for severe anemia, indications for surgery in more severe cases: Egypt

Anemia, Trematoda

Berry, C. I.; and Dargie, J. D., 1976, Vet. Parasitol., v. 2 (4), 317-332

Fasciola hepatica, sheep, role of host nutrition in pathogenesis, effects of diets providing different protein intake and of a switch from high to low protein diet on anemia, hypoalbuminemia, and weight

- Anemia, Trematoda
Bitakaramire, P. K., 1973, Isotopes and Radiation Parasitol. III, 23-32
Fasciola gigantica, calves, immunization with gamma-irradiated metacercariae, pathology, albumin and iron turnover in vaccinated vs. non-vaccinated groups
- Anemia, Trematoda
Collins, K. J.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (3), 410-421
Schistosoma mansoni, human (194 cane cutters), physical characteristics and hemoglobin concentration, effect of infection on physiological tests of work performance and heat tolerance under laboratory conditions, findings related to productive output in performing self-paced task under natural working conditions: Guneid, Sudan
- Anemia, Trematoda
Dargie, J. D., 1975, Symposia Brit. Soc. Parasitol., v. 13, 1-26
helminth diseases of sheep, red cell and plasma protein metabolism, anaemia, applications of radioisotopic methods, extensive review with particular emphasis on Fasciola hepatica and Haemonchus contortus
- Anemia, Trematoda
Haroun, E. M.; and Hussein, M. F., 1975, J. Helminth., v. 49 (3), 143-152
Fasciola gigantica, pathological, haematological, and biochemical aspects of naturally occurring bovine fascioliasis: Sudan
- Anemia, Trematoda
Haroun, E. M.; and Hussein, M. F., 1976, J. Helminth., v. 50 (1), 29-30
Fasciola gigantica, calves (exper.), pathological, haematological, and biochemical aspects of infection
- Anemia, Trematoda
Holmes, P. H.; et al., 1977, J. Helminth., v. 51 (2), 95-104
S[chistosoma] mansoni in Papio anubis (exper.), acute infections, erythrokinetic studies
- Anemia, Trematoda
Holmes, P. H.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 289 [Demonstration]
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- Appendicitis. See Appendix.
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- Attractants**
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Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, abutting allopatric distributions, water balance of nymphs and adults in relation to distribution: South Australia
- Australia, South Australia
Smyth, M., 1973, Austral. J. Zool., v. 21 (1), 91-101
Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, survey, distributions overlap remarkably little over long boundaries, roughly correlated with climate, vegetation, and, in one case, soil
- Australia, Tasmania
Beard, T. C., 1969, Med. J. Australia, v. 2 (9), 456-459
control program for human echinococcosis in Tasmania, problems of health education of public
- Australia, Western Australia
Stein, G. R.; and McCully, D. J., 1970, Med. J. Australia, v. 1 (17), 848-850
survey of major hospitals for statistical records of human echinococcosis, 1957-1967: Western Australia
- Autoimmunity. See Immunity, Autoimmunity.
- Autoinfection. See Disease transmission, Autoinfection.
- Autoradiography. [See also Radiation; Radioisotopes]
- Autoradiography
Albach, R. A.; et al., 1977, Exper. Parasitol., v. 42 (1), 248-259
Entamoeba histolytica, nuclear sites of RNA synthesis, autoradiographic analysis
- Autoradiography
Bretana, A.; and O'Daly, J. A., 1976, Internat. J. Parasitol., v. 6 (5), 379-386
Trypanosoma cruzi, uptake of proteins from fetal calf serum needed for growth, methods for labelling and subsequent localization (immunofluorescence; autoradiography; colloidal gold)
- Autoradiography
Hanna, R. E. B., 1976, Exper. Parasitol., v. 39 (1), 18-28
Fasciola hepatica, shell-protein and glyco-gen synthesis by vitelline follicles in tissue slices, light and electron microscope autoradiography
- Autoradiography
Irvin, A. D., 1976, Vet. Rec., v. 98 (18), 351-356
fusion of *Theileria parva*-infected bovine lymphoid cells and hamster cells, detection of bovine/hamster heterokaryons by presence of H thymidine labelled nuclei and unlabelled nuclei in the same cell, autoradiography, possible use as laboratory model for East Coast fever, review
- Autoradiography
Laurence, B. R.; and Simpson, M. G., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 12 [Demonstration]
Brugia spp., autoradiography and ultrastructure of filarial larvae development and metabolism in mosquito hosts, uptake of amino and nucleic acids
- Autoradiography
Moore, G. A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 114 [Demonstration]
Schistosoma mansoni, changes in autoradiography both in vivo and in vitro after treatment with hycanthone
- Autoradiography
Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1977, Exper. Parasitol., v. 41 (1), 95-104
Toxoplasma gondii, growth in Lesch-Nyhan cells which are incapable of incorporating hypoxanthine or guanine as a technique for specific labeling of nucleic acids of intracellular parasites vs. their host cells, autoradiography
- Autoradiography
Reid, W. A.; Phillips, S. M.; and Roscinski, R. J., 1977, Exper. Parasitol., v. 42 (2), 331-342
Schistosoma mansoni, radioisotope uptake and retention by cercariae and developing schistosomules, evaluation of this methodology for identifying selective worm populations and their products for prolonged periods of time
- Autoradiography
Steiger, R.; and Jenni, L., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 293-294 [Abstract]
Trypanosoma brucei-infected salivary glands of *Glossina morsitans*, tracer experiments, transport, uptake, and deposition of labeled amino acids
- Axenic culture. See Culture.

- Bacteria**
Aitken, M. M.; et al., 1976, Brit. Vet. J., v. 132 (1), 119-120
Fasciola hepatica, cattle (exper.), increased susceptibility to Salmonella dublin
- Bacteria**
Balauca, N., 1976, Arch. Exper. Vet.-Med., v. 30 (6), 903-912
Eimeria acervulina, E. necatrix, and E. mitis in cage-kept hens (exper.), mixed infections with Clostridium perfringens causing necrotic enteritis, little pathologic changes from mono-infections
- Bacteria**
Balauca, N.; et al., 1976, Arch. Exper. Vet.-Med., v. 30 (6), 913-923
E[imeria] acervulina, E[imeria] necatrix, and E[imeria] mitis in ground-kept hens (exper.), mixed infections with Clostridium perfringens causing necrotic enteritis, higher mortality in ground-kept hens than cage-kept hens
- Bacteria**
Barrett, R. A.; and Alexander, M., 1977, Applied and Environment. Microbiol., v. 33 (3), 670-674
Acanthamoeba, susceptibility of cysts to microbial and enzymatic degradation in soil and in vitro
- Bacteria**
Barsoum, R. S.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 387-391
human hepatosplenic schistosomiasis with renal involvement and associated renal salmonellosis, possible relationships in pathogenesis of renal lesions
- Bacteria**
Basch, P. F., 1971, Nature (5320), v. 233, 492-493
Schistosoma spindale, infection of adult worms with gram-positive cocci, highly invasive and pathogenic, likely that bacteriaemia in mouse host led to infection of schistosomes
- Bacteria**
Beer, R. J.; and Rutter, J. M., 1972, Research Vet. Sc., v. 13 (6), 593-595
Trichuris suis, weaned pigs (exper.), syndrome resembling swine dysentery, demonstration of spirochaetal invasion of colonic mucosa, possible significance of association of nematode and bacteria
- Bacteria**
Bekkouche, Z.; and Dupouy, J., 1976, Ztschr. Parasitenk., v. 48 (3-4), 298-299 [Abstract]
Polystoma integerrimum, bacteria in cytoplasm of somatic cells and oocytes, no cell alteration, may be considered symbiotic
- Bacteria**
Boorman, G. A.; et al., 1973, Lab. Animal Sc., v. 23 (2), 187-193
Hexamita muris, Giardia muris, potentially pathogenic in newly weaned mice, causing enteritis and mortality in association with normal intestinal bacterial flora, quina-craine dihydrochloride not effective in reducing mortality, dimetridazole effective
- Bacteria**
Bos, H. J.; and Hage, A. J., 1975, Ztschr. Parasitenk., v. 47 (2), 79-89
Entamoeba histolytica, virulent and carrier strains from humans, cultured axenically or with bacteria or Crithidia or passaged through hamster liver, varying virulence in experimental hamster liver infections
- Bacteria**
Bosworth, W.; and Ewert, A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (1), 21-25
Brugia malayi in cats (exper.), added infection of beta haemolytic streptococcus to hind leg regions resulted in elephantiasis, patterns of infections reversible with collateral lymphatic vessels developing
- Bacteria**
Bosworth, W.; Ewert, A.; and Flores, A. E., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (2), 255-259
Brugia malayi, cats (exper.), determination of antistreptolysin O titers in filariasis and comparison of titers in combined filariasis and streptococcal involvement, attempted correlation with observable pathology
- Bacteria**
Camargo, E. P.; and Freymuller, E., 1977, Nature, London (5632), v. 270, 52-53
Crithidia, presence of ornithine carbamoyl-transferase in species harboring bacteria-like endosymbionts (C. deanei, C. oncopelti) enables these species to synthesize arginine from ornithine thereby conferring a nutritional advantage on the protozoan host
- Bacteria**
Chang, K.-P., 1974, J. Protozool., v. 21 (5), 699-707
ultrastructural evidence suggests that bipolar bodies of Crithidia oncopelti and diplosoemes of Blastocrithidia culicis are endosymbiotic bacteria with defective cell walls and that they are subject to destruction by treatment with chloramphenicol but not penicillin
- Bacteria**
Chang, K.-P., 1975, J. Protozool., v. 22 (2), 271-276
Blastocrithidia culicis, Crithidia oncopelti, intracellular symbiotes can be eliminated by single chloramphenicol treatment with subsequent reduced growth of flagellates

Bacteria

- Chang, K.-P., 1976, *J. Protozool.*, v. 23 (2), 241-244
Blastocrithidia culicis, *Crithidia oncopelti*, symbiote-free strains: liver extract as essential growth factor in defined medium; cross-reactivity in reciprocal agglutination test with symbiote-containing strains indicates loss of symbiotes does not affect antigenic identity

Bacteria

- Cordero del Campillo, M.; et al., 1974, *Rev. Iber. Parasitol.*, v. 34 (3-4), 305-315
 case history, horse infected with *E[rysipelothrix] insidiosa* to produce hyperimmune serum, rapid death from *Babesia*, considered to be activation of carrier state; possible tick vectors reviewed: Leon (N.W. Spain)

Bacteria

- Cypess, R. H.; et al., 1974, *J. Infect. Dis.*, v. 130 (5), 534-538
Nematospiroides dubius, influence of parasitic infection in mouse (exper.) on enteric colonization and immune response to *Escherichia coli*

Bacteria

- Derylo, A., 1970, *Acta Parasitol. Polon.*, v. 17 (20-38), 301-313
Eomenacanthus stramineus, *Menopon gallinae*, feeding on hens with fowl cholera, presence of cholera agent, *Pasteurella multocida*, on body surface and in gut and feces but not persisting in lice, possibility of transmission

Bacteria

- DeVaney, J. A.; et al., 1973, *J. Med. Entom.*, v. 10 (6), 591-595
Cochliomyia hominivorax, attractancy of bovine blood fractions incubated and inoculated with known bacteria species resulted from bacteria and/or from compounds produced by them

Bacteria

- Devauchelle, G.; and Vinckier, D., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 297-298 [Abstract]
Nosema vivieri in gregarines of nemertean; bacteria in gregarines of *Lithobia*, earthworms and flourworms

Bacteria

- Dwyer, D. M.; and Chang, K.-P., 1976, *Proc. Nat. Acad. Sc., U.S.A.*, v. 73 (3), 852-856
Crithidia oncopelti, bacterial endosymbiote-containing vs. symbiote-free strain, comparison of surface-membrane carbohydrate ligands by lectin-mediated agglutination and lectin-ultrastructure localization

Bacteria

- Eddy, G. W.; DeVaney, J. A.; and Handke, B. D., 1975, *J. Med. Entom.*, v. 12 (3), 379-381
Cochliomyia hominivorax adults, attraction to bovine blood incubated with various species of bacteria, possible use with oviposition medium in screwworm rearing plants

Bacteria

- Esuruoso, G. O., 1977, *Bull. Animal Health and Prod. Africa*, v. 25 (1), 65-72
Demodex folliculorum var. *bovis* in exotic and indigenous cattle, incidence, treatment trials (best results with selenium sulphide), constant presence of *Staphylococcus aureus* in lesions of demodectic mange indicated that it might aid in spread of lesions, immunization with *S. aureus* resulted in the reduction of mange lesions: southern Nigeria

Bacteria

- Fournier, A.; Combes, C.; and Vago, C., 1975, *Compt. Rend. Acad. Sc., Paris*, v. 281, s. D, Sc. Nat. (23), 1895-1896
Euzetrema knoepffleri, pathogenic intracellular bacteria in tissues, present during all stages of life-cycle, transmitted by gametes

Bacteria

- Fournier, A.; Vago, C.; and Combes, C., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 298 [Abstract]
Euzetrema knoepffleri, procaryote of bacterial type in cell cytoplasm, particularly gonads, possible pathogenicity

Bacteria

- Fujimoto, D., 1975, *J. Biochem., Tokyo*, v. 78 (5), 905-909
Ascaris lumbricoides, extent of hydrolysis of *Ascaris* cuticle collagen by bacterial collagenase under various conditions, amino acid composition of collagenase digests, results suggest $CaCl_2$ necessary for hydrolysis of certain regions in molecule of *Ascaris* collagen not present in mammalian collagens

Bacteria

- Hall, G. A.; Rutter, J. M.; and Beer, R. J. S., 1976, *J. Comp. Path.*, v. 86 (2), 285-292
Trichuris suis, sequential development of large intestinal lesions in piglets (conventionally reared vs. specific-pathogen-free vs. gnotobiotic) studied histologically, synergistic effect of *T. suis* and bacterial flora in disease process

Bacteria

- Helms, T. J.; and Wedberg, J. L., 1976, *J. Invert. Path.*, v. 28 (3), 383-384
Nosema-infected *Loxagrotis albicosta* (midgut epithelium), *Bacillus thuringiensis* treatment had beneficial not debilitating effect

Bacteria

- Higashi, G. I.; and Young, S. W., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 343 [Letter]
 human schistosomes, antigenic relationships with salmonellae, possibly shared surface antigens aid symbiotic state

Bacteria

- Hominick, W. M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 383 [Demonstration]
Thelastoma sp., bacterial infection of cuticle of pinworms inhabiting hindgut of laboratory reared *Periplaneta americana*, bacterial preference for *Thelastoma* sp. over *Hammerschmidtella diesingi* possibly related to structure of cuticle

Bacteria

Khan, A.; and Brooks, W. M., 1977, J. Invert. Pathol., v. 29 (3), 253-261
 characterization of chromogenic bioluminescent bacterium associated with the entomophilic nematode *Chromonema heliothidis*, comparison of this bacterium with *Achromobacter nematophilus*

Bacteria

Khan, A. M., 1976, Indian J. Entom., v. 36 (3), 1974, 240-241
Cimex hemipterus, intracellular *Corynebacterium* sp. isolated

Bacteria

Kimura, N.; et al., 1976, Poultry Science, v. 55 (4), 1375-1383
Eimeria tenella, chickens, qualitative and quantitative study on intestinal flora, bacteriological and histopathological changes in ceca, probable that proliferation of clostridia and enterobacteria retards recovery from cecal coccidiosis

Bacteria

Komandarev, S.; et al., 1977, Dokl. Bolgar. Akad. Nauk, v. 30 (4), 567-569
Trichinella spiralis, rats (exper.), increase in peritoneal macrophages creates protection in subsequent infection by *Erysipelothrix rhusiopathiae*

Bacteria

Kozek, W. J., 1977, J. Parasitol., v. 63 (6), 992-1000
Brugia malayi, adults and all larval stages harbor intracytoplasmic bacterial organisms that appear to be transovarially transmitted and show special preference for lateral chords and for germinal tissues of females

Bacteria

Kozek, W. J.; and Figueroa Marroquin, H., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 663-678
Onchocerca volvulus, intracellular organisms similar to chlamydiae found within lateral chords of adult worms and larval stages, also in oogonia, oocysts, and developing eggs of females and in microfilariae, significance unknown

Bacteria

Lee, Y. C.; et al., 1976, J. Chinese Soc. Vet. Sc., v. 2 (1), 40-43
Ascaridia galli eggs, *Citrobacter freundii* isolated, failure to recover *Salmonella pullorum* from worm eggs after artificial infection of chickens

Bacteria

Lee, Y. C.; and Huang, K. J., 1975, J. Chinese Soc. Vet. Sc., v. 1 (1), 24-30
Ascaris suum, pigs, relationship to prevalence of infectious pneumonia caused by bacteria, more severe lesions with both present

Bacteria

Lee, Y. C.; and Liu, C. C., 1976, J. Chinese Soc. Vet. Sc., v. 2 (2), 59-61
Ascaris suum eggs, isolation of *Escherichia coli*, *Alcaligenes faecalis* and *Pseudomonas aeruginosa*

Bacteria

Lee, Y.-C.; Liu, C. K.; and Liu, C. C., 1975, J. Chinese Soc. Vet. Sc., v. 1 (2), 79-82
Ascaridia galli eggs did not transmit *Salmonella pullorum* from chickens

Bacteria

Lehman, J. S., jr.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 384-399
Schistosoma haematobium, men and boys, clinical evaluation, radiography, quantitative egg excretion, bacterial cultures, renal function, results analyzed by age, by symptoms, by presence of polypoid vs. calcified lesions, by presence or absence of obstructive uropathy, and by response to antischistosomal treatment: Egypt

Bacteria

McLaren, D. J.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 509-514
 larval *Dirofilaria immitis* and *Brugia pahangi*, gram-negative micro-organisms within hypodermal tissue, possible adverse affect on development

Bacteria

Mantovani, A.; et al., 1972, Parassitologia, v. 14 (1), 149-162
Strongyloides papillosus larvae transmit the bacteria *Sphaerophorus necrophorus* to rabbits and spread it to host lungs by migration

Bacteria

Mantovani, A.; et al., 1972, Atti Soc. Ital. Sc. Vet., v. 26, 569-570
 role of *Strongyloides papillosus* larvae in penetration and spread of *Sphaerophorus necrophorus* in rabbits

Bacteria

Michel, J.-C., 1975, Compt. Rend. Acad. Sc., Paris, v. 281, s. D, Sc. Nat. (17), 1281-1283
Plasmodium berghei yoelii, non-specific resistance in mice increased by injection of bacterial phospholipid extract

Bacteria

Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 48 (1), 35-45
Dicrocoelium dendriticum miracidia, hatching with formic acid, caproic acid and intestinal juice of *Helix pomatia*, absence of O₂, presence of bacteria; indirect dependence on pH; permeabilities and osmotic pressure; hypothesis of hatching mechanism: granular gland activation releases enzyme, polysaccharide digested to oligosaccharide, rising osmotic pressure bursts operculum

Bacteria

Mundim, M. H.; et al., 1974, J. Protozool., v. 21 (4), 518-521
Crithidia deanei, cultivation in defined medium, unexpectedly simple nutritional requirements, bacterial endosymbiont revealed by electron microscopy may provide other essential nutrients

Bacteria

- Mundim, M. H.; and Roitman, I., 1977, J. Protozool., v. 24 (2), 329-331
 Crithidia deanei, strain cured of its bacteria-like symbiote by chloramphenicol had additional nutritional requirements beyond those of the parent strain

Bacteria

- Nalin, D. R.; and McLaughlin, J., 1976, J. Parasitol., v. 62 (5), 839-841
 Ascaris lumbricoides adults found to be colonized by Vibrio cholerae when isolated from cholera patients: Bangladesh

Bacteria

- Ortiz-Ortiz, L.; et al., 1976, Internat. Arch. Allergy and Applied Immunol., v. 50 (2), 232-242
 Trypanosoma cruzi-infected mice, development of nonspecific resistance to challenge with Listeria monocytogenes, association with increased mononuclear phagocytic activity

Bacteria

- O'Sullivan, B. M.; Rosenfeld, L. E.; and Green, P. E., 1976, Austral. Vet. J., v. 52 (5), 232-233
 Platynosomum fastosum, mixed infection with Yersinia pseudotuberculosis, cat, case history, pathology: Rabaul, Papua New Guinea, imported to Australia

Bacteria

- Paterson, H., 1977, Parasitology, v. 75 (2), xx [Abstract]
 Moniezia expansa, M. benedeni, attempts to obtain hatched and sterile oncospheres for culture, hatching differences between species, large numbers of bacteria identified in eggs, elimination with chlorhexidine derivative for sterile oncospheres

Bacteria

- Pliszczynska-Brennenstul, M.; et al., 1975, Otolaryngol. Pol., v. 29 (6), 653-655
 congenital toxoplasmosis in infants with concurrent septic staphylococcus nasal septum abscess, case reports: Poland

Bacteria

- Przyjałkowski, Z.; and Warton, A., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (11), 1976, 675-678
 Trichinella spiralis in bacteria-free or conventional mice, changes in ultrastructure of epithelium of small intestines

Bacteria

- Przyjałkowski, Z.; and Wescott, R. B., 1970, Acta Parasitol. Polon., v. 17 (20-38), 265-269
 Nippostrongylus brasiliensis, conventional and germfree mice, some with monocultures of three species of bacteria, differential leucocyte counts, packed cell volume; higher worm burdens in male mice and in conventional mice, little differences in blood values

Bacteria

- Purnell, R. E.; et al., 1977, Vet. Rec., v. 100 (1), 4-6
 Babesia divergens, splenectomized calves (exper.), mixed infection with Ehrlichia phagocytophila resulted in less marked changes in haematology, apparent suppression of Babesia by Ehrlichia

Bacteria

- Rehbinder, C.; Christensson, D.; and Glatthard, V., 1975, Nord. Vet.-Med., v. 27 (10), 499-507
 Onchocerca sp. in subperitoneal and subcutaneous granulomas and Setaria tundrae in encapsulations in peritoneum of reindeer, increasing incidence, association with liver lesions caused by Corynebacteria, found in forest herds but not mountain herds

Bacteria

- Rodhain, F.; and Dodin, A., 1971, Medecine et Malad. Infect., v. 1 (4), 185-188
 Wuchereria bancrofti, Loa loa, variations in human antistreptolysin O titers before and after treatment for filariasis, possible antigenic immune reaction between filariae and Streptococcus

Bacteria

- Rojo Vazquez, J., 1977, An. Fac. Vet. Leon, Oviedo, v. 21 (21), 1975, 51-101
 Protostrongylinae, frequency in ovine lungs, primary nodes are infected by bacteria at a lower rate than non-parasitized lung areas: municipal slaughterhouse, Leon

Bacteria

- Ross, G. W.; and Knight, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 560-567
 Entamoeba histolytica, dietary factors affecting pathogenicity in rats, effect of low protein and low protein-high carbohydrate diets, measurements of bacterial flora, pH, and redox potential

Bacteria

- Ruff, M. D.; et al., 1975, Avian Path., v. 4 (1), 73-81
 Eimeria brunetti, effects on intestinal pH in conventional and gnotobiotic chickens

Bacteria

- Ruitenbergh, E. J., 1973, Norwegian J. Zool., v. 21 (4), 326 [Abstract]
 Trichinella spiralis in rats (exper.), immune response directed towards intestinal phase; Corynebacterium parvum sensitization prolonged expulsion

Bacteria

- Salih, S. Y.; et al., 1977, J. Trop. Med. and Hyg., v. 80 (1), 14-18
 Schistosoma mansoni hepatosplenic infections in humans complicated by Salmonella typhi infections, treatment of Salmonella led to improvement of schistosomal pathologic changes: Sudan

Bacteria

- v. d. Schaaf, A., 1972, Brit. Vet. J., v. 128 (3), x [Letter]
presence of fascioliasis in Salmonella dublin-infected calves, thought that bile or bile duct changes from fascioliasis allow S. dublin to multiply and be established

Bacteria

- Taylor, S. M.; et al., 1973, Vet. Rec., v. 93 (17), 461-464
Eimeria spp., lambs kept on straw bedding vs. expanded metal flooring showed higher fecal oocyst counts, diarrhea, greater weight loss, and some fatalities; causal agents of disease appear to be E. ninaekohl-yakimovae and/or E. arloingi with concurrent increase of intestinal Cl[ostidium] welchii type A

Bacteria

- Toshkov, A.; et al., 1977, Dokl. Bolgar. Akad. Nauk, v. 30 (6), 895-896
Trichinella spiralis-infected rats followed by infection with Erysipelothrix rhusiopathiae, effect of ACTH on defence mechanisms is counteracted by T. spiralis (inhibition of non-specific protective factors)

Bacteria

- Van Pelt, R. W.; and Dieterich, R. A., 1973, J. Wildlife Dis., v. 9 (3), 258-261
Toxoplasma gondii in Phoca vitulina richardii (liver), complicating generalized staphylococcal infection, clinical course with fatal outcome, pathologic findings: captured at Cold Bay, Alaska, held in captivity until death 21 days later

Bacteria

- Vickerman, K., 1977, J. Protozool., v. 24 (2), 221-233
Cryptobia vaginalis, light and electron microscopic morphology, kinetoplast DNA dispersed throughout single mitochondrion, feeding by pinocytosis through cytopharynx, bacterial symbiotes

Bacteria

- Viiil, C., 1972, N. England J. Med., v. 286 (2), 106-107 [Letter]
Entamoeba histolytica in humans, frequent association with Shigella dysenteriae, need for improved research on pathogenic interaction, dysentery often not relieved without additional amoebicidal therapy with metronidazole: Nicaragua

Bacteria

- Wadstroem, T.; et al., 1976, Arch. Dis. Childhood, v. 51 (11), 865-870
Ascaris, Entamoeba histolytica, Giardia lamblia, children with diarrheal disease, survey, no correlation with toxinogenic bacteria in stools: Ethiopia

Bacteria

- Waldeland, H., 1977, Acta Vet. Scand., v. 18 (2), 237-247
Toxoplasma gondii, sheep, antibody formation, dye test titres higher in ewes that had aborted; course of titre levels in young lambs; titre not influenced by listeric encephalitis; higher titres in sheep with hemoglobin type B

Bacteria

- Whittle, H. C.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 349-363
scabies, pyoderma, and nephritis, clinical and epidemiological study: Zaria, Nigeria

Bacteria

- Young, S. W.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (6), 797-802
Schistosoma mansoni, Salmonella paratyphi A cultured from tegument of worms removed from patients with chronic salmonellosis, worms incubated with salmonella in vitro, and worms from mice previously inoculated with salmonella

Bacteria

- Young, S. W.; Hagashi, G.; and Kamel, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 437 [Demonstration]
Schistosoma mansoni from 2 patients with chronic salmonellosis, tegumental colonization of schistosomes by Salmonella paratyphi A

Bacteria

- Zierdt, C. H.; and Tan, H., 1976, Exper. Parasitol., v. 39 (3), 422-430
Blastocystis hominis, 8 axenically grown strains, presence of intracellular bacteria-like spheres and rods, direct relationship between increasing endosymbiont numbers and increasing B. hominis cell size, effect of 3 antibiotics on B. hominis and its endosymbiont

Barometric pressure. See Pressure, Atmospheric.

Bather's itch. See Dermatitis, Trematoda.

Behavior. [See also Host perception by parasites Taxis]

Behavior, Host

- Badie, A., 1975, Ann. Recherches Vet., v. 6 (3), 259-264
Dicrocoelium lanceolatum metacercaria, annual activity cycle of parasitized ants, numbers hooked to vegetation at certain parts of the day, possible relationships to temperature and rainfall, risk of parasitism in sheep flocks, possible basis for control

Behavior, Host

- Bennett, G. F., 1973, J. Wildlife Dis., v. 9 (1), 85-93
Cuterebra emasculator, Tamias striatus (nat. and exper.), haematological values of infected vs. uninfected chipmunks, adverse effects of infection on activity and feeding subsequent to parasite leaving host: Ontario

Behavior, Host

- Combes, C., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 151-170
helminth life cycles as influenced by the behavior of their amphibian hosts, review; list of life cycles which may be related to different modes of infestation

Behavior, Host

- Crowden, A. E., 1976, Parasitology, v. 73 (2), vii [Abstract]

Diplostomum spathaceum-infected *Leuciscus leuciscus*, decreased feeding efficiency, increased time spent feeding, more heavily infected fish spend more time in surface layers of water where more vulnerable to predation by birds, "Infection of fish by *D. spathaceum* metacercariae seems to alter the fish behaviour to the parasite's advantage without causing too high a level of wasteful mortalities.": River Thames

Behavior, Host

- Eure, H., 1976, Parasitology, v. 73 (3), 355-370

Neoechinorhynchus cylindratus in *Micropterus salmoides*, seasonal periodicity (attempt to determine effects of water temperature, seasonally related host feeding habits, availability of infected intermediate hosts, host's sex and age, host location within reservoir), attempted analyses of parasite recruitment rate, maturation cycle, and sex ratio: heated reservoir (Par Pond), Energy Research and Development Administration's Savannah River Plant, Aiken, South Carolina

Behavior, Host

- Gabrion, C.; Plateaux, L.; and Quentin, C., 1976, Ann. Parasitol., v. 51 (4), 407-420

Anomotaenia brevis cysticercooids in *Leptothorax nylanderi*, mechanism of infection, localization, structure by light and electron microscopy, modifications in parasitized hosts (morphology and pigmentation; behavior and physiology; partial parasitic castration), changes may render more susceptible to ingestion by final hosts (birds)

Behavior, Host

- Gemmell, M. A., 1976, Research Vet. Sc., v. 21 (2), 225-226

Taenia hydatigena, lambs on contaminated pasture, modification of transmission pattern under 5 weeks of age due to change from sucking to grazing behavior and/or immunity passively transferred via colostrum

Behavior, Host

- Gladney, W. J.; et al., 1973, J. Med. Entom., v. 10 (2), 123-130

Boophilus annulatus, Holstein cattle (exper.), high protein and fat diet vs. low protein and fat diet, effect on host resistance, hematocrit, and serum cholesterol values, and on tick development and numbers; host resistance primarily physiological rather than behavioral (self grooming)

Behavior, Host

- Hall, R. D.; and Gross, W. B., 1975, J. Parasitol., v. 61 (6), 1096-1100
Ornithonyssus sylviarum, chickens artificially selected for high or low levels of plasma corticosterone response to stress and housed to promote high or low levels of social interaction, effect on development of mite populations, host sex differences

Behavior, Host

- Hausfater, G.; and Watson, D. F., 1976, Nature, London (5570), v. 262, 688-689

emission of parasite ova (primarily *Trichuris* and *Trichostrongylus*) by *Papio cynocephalus* in relation to host social and reproductive condition, high-ranking adult males had higher egg emission than more subordinate individuals, sexually cycling females had higher emissions than anoestrous females

Behavior, Host

- Hensley, M. S., 1977, Virginia J. Sc., v. 28 (2), 63 [Abstract]

Cuterebra fontinella-infested *Peromyscus leucopus*, less vulnerable to predation by foxes, possibly due to shrunken home ranges

Behavior, Host

- Holmes, J. C.; and Bethel, W. M., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 123-149

parasite modification of intermediate host behavior in order to increase vulnerability of intermediate host to predation by definitive host; reversal of phototaxis by cystacanths of *Polymorphus paradoxus* produces altered evasive response in *Gammarus lacustris* vectors which in turn increases vulnerability of infected vectors to ingestion by mallard duck hosts

Behavior, Host

- Kalkan, A., 1976, Etlik Vet. Bakteriyol. Enst. Dergisi, v. 4 (5-10), 1974-1976, 11-37

Dicrocoelium dendriticum in *Formica rufibarbis*, abnormal host behavior in the evening when the temperature decreases, crawling to top of plants: South Marmara Region, Turkey

Behavior, Host

- Kozel, T. R., 1976, Tr. Kentucky Acad. Sc., v. 37 (1-2), 41-44

Ichthyophthirius multifiliis, distribution on body of *Fundulus notatus*, younger fish more heavily infested than older ones, host behavioral changes: area surrounding confluence of Pope Lick Creek and Floyds Fork Creek, near Pope Lick Road bridge, southeastern Jefferson County, Kentucky

Behavior, Host

- Lockard, L. L.; Parsons, R. R.; and Schaplow, B. M., 1975, Great Basin Nat., v. 35 (4), 442-448

Salmo trutta (upper digestive tract), relationship of incidence and intensity of nematode infection to age and sexual maturity of host, higher infection rate in sexually mature trout due to aggressive feeding behavior: streams in southern and western Montana

Behavior, Host

- Loos-Frank, B.; and Zimmermann, G., 1976, Ztschr. Parasitenk., v. 49 (3), 281-289
Dicrocoelium dendriticum-infected *Formica pratensis*, ant behavioral changes similar to those caused by infection with fungus, *Entomophthora*; necessity for differentiating causes of behavioral changes in studies of ants as intermediate hosts

Behavior, Host

- Lundberg, H.; and Svensson, B. G., 1975, Norsk Entom. Tidsskr., v. 22 (2), 129-134
Sphaerularia bombi, bumble-bee queens, correlation between parasitism and behavior (nest-seeking, hibernacula-seeking and foraging behavior)

Behavior, Host

- McAuliffe, J. R., 1977, J. Parasitol., v. 63 (3), 580-581
Haemogregarina, varying infection levels in *Chrysemys picta bellii*, *Chelydra serpentina*, and *Emydoidea blandingii* may be a function of their basking behavior which affects incidence of parasitism by the presumed leech vector *Placobdella parasitica*: Nebraska Sandhills

Behavior, Host

- McNair, D. M.; and Timmons, E. H., 1977, Lab. Animal Sc., v. 27 (1), 38-42
Syphacia obvelata and *Aspiculuris tetraptera*, effects on exploratory behavior of inbred mouse strain (exper.)

Behavior, Host

- Miles, C. T.; Foster, W. A.; and Christensen, H. A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 531-532 [Letter]
Leishmania braziliensis, evidence that some vector *Lutzomyia* spp. may use host stimuli for sexual aggregation as well as blood feeding

Behavior, Host

- Muzzall, P. M.; and Rabalais, F. C., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 116-118
Acanthocephalus jacksoni-infected *Lirceus lineatus*, altered behavioral responses and increased conspicuousness of parasitized isopods increases likelihood of transmission of cystacanth to definitive host

Behavior, Host

- Nelson, G. S., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 109-122
 human behavior in the transmission of parasitic diseases, review

Behavior, Host

- Newson, R. M.; Mella, P. N. P.; and Franklin, T. E., 1973, Trop. Animal Health and Prod., v. 5 (4), 281-283
Rhipicephalus appendiculatus on *Bos indicus* (ears), correlation of tick burden to host hierarchical status in the herd

Behavior, Host

- Norval, R. A. I., 1975, J. Parasitol., v. 61 (4), 730-736
Haemaphysalis silacea, ecology: habitat preferences, distribution in relation to microclimatic conditions, seasonal activity, seasonal occurrence on hosts, sex ratio of ticks, host/tick interactions as result of host daily movements and feeding habits, site of attachment: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Behavior, Host

- Norval, R. A. I., 1975, J. Parasitol., v. 61 (4), 737-742
Amblyomma marmoreum, ecology: habitat preference, seasonal activity, seasonal occurrence on hosts, life cycle in laboratory correlated with field observations, temperature dependence of feeding time, effects of host seasonal behavior: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Behavior, Host

- Otto, F.; and Koerting, W., 1973, Vet. Med. Rev. (2), 99-106
 endoparasites, behavioral changes in infected rainbow trout, post mortem findings: fish farm, South Germany

Behavior, Host

- Paraschivescu, D.; Hurghisiu, I.; and Popescu, S., 1976, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 11-12, 1975, 159-178
Dicrocoelium lanceatum in Formicidae, effect on host free amino acid content, behavior, distribution on pastures; cause of tetany

Behavior, Host

- Rinderer, T. E.; and Elliott, K. D., 1977, J. Invert. Path., v. 30 (1), 110-111
Nosema apis, reduction in hoarding behavior of infected *Apis mellifera*

Behavior, Host

- Schiefer, B. A.; Ward, R. A.; and Eldridge, B. F., 1977, Exper. Parasitol., v. 41 (2), 397-404
Plasmodium cynomolgi-infected *Anopheles stephensi*, reductions in laboratory flight performance, epidemiological implications

Behavior, Host

- Stewart, S. J.; et al., 1976, Exper. Parasitol., v. 40 (3), 373-379
Polyplax serrata, mice, effects of limb disability and consequent inability to groom on lousiness: failure to induce immune tolerance after neonatal exposure

Behavior, Host

- Stibbs, H. H.; and Seed, J. R., 1976, Exper. Parasitol., v. 39 (1), 1-6
Trypanosoma brucei gambiense, chronically infected *Microtus montanus*, elevated serum and hepatic tyrosine aminotransferase, high serum levels may result from lysis of parasites (possibly due to agglutination by antibody) containing high levels of enzyme, implications for catecholamine metabolism and consequently for pathologic behavioral syndrome

Behavior, Host

Woodard, D. B.; and Fukuda, T., 1977, Mosquito News, v. 37 (2), 192-195

Diximermis peterseni as biological control agent for *Anopheles quadrimaculatus*, laboratory resistance, mechanism is behavioural (avoidance of attack and snapping at nematodes by mosquito larvae during exposure)

Behavior, Mating. See Reproduction.

Behavior, Motion. See Locomotion.

Behavior, Parasite

Abele, L. G.; and Gilchrist, S., 1977, Science (4298), v. 197, 81-83

Moniliformis dubius, report of homosexual rape, interpretation of this behavior and other aspects of biology of acanthocephalans in context of parental investment and sexual selection

Behavior, Parasite

Ahrens, E. H.; et al., 1977, Environment. Entom., v. 6 (1), 138-142

Cochliomyia hominivorax, distribution and diurnal activity periods of released and native screwworm flies: southern Texas

Behavior, Parasite

Berger, R. S.; Dukes, J. C.; and Chow, Y. S., 1971, J. Med. Entom., v. 8 (1), 34-36

Amblyomma americanum, *A. maculatum*, *Derma-centor variabilis*, pheromone from female extracts excited males and resulted in responses reminiscent of mating behavior, males must reach state of maturity initiated by feeding before they will respond; chemical properties indicate it is a weak acid, possibly a phenol, site of extract production appears to be female reproductive organs

Behavior, Parasite

Bone, L. W.; and Shorey, H. H., 1977, J. Parasitol., v. 63 (5), 845-848

Nippostrongylus brasiliensis, interactive influences of male- and female-produced pheromones on male attraction to female

Behavior, Parasite

Bone, L. W.; Shorey, H. H.; and Gaston, L. K., 1977, J. Parasitol., v. 63 (2), 364-367

Nippostrongylus brasiliensis, mutual heterosexual attraction in vitro, pheromonal dosage response, homosexual trials

Behavior, Parasite

Brooker, B. E., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 171-180

Schistosoma mansoni, *Diplostomum spathaceum*, tegumentary sense organs in miracidia, morphology, possible function in larval orientation with respect to gravity

Behavior, Parasite

Browning, T. O., 1976, Physiol. Entom., v. 1 (2), 107-114

Rhipicephalus pulchellus, *R. appendiculatus*, aggregation on grass stems, laboratory and field studies, no evident response to chemical stimulus

Behavior, Parasite

Bush, G. L.; Neck, R. W.; and Kitto, G. B., 1976, Science (4252), v. 193, 491-493

Cochliomyia hominivorax, mass rearing program, inadvertent selection for rare allelic form of α -glycerol phosphate dehydrogenase (a flight muscle enzyme), relationship to loss of competitive ability of factory-reared screwworm flies when released into nature

Behavior, Parasite

Cable, R. M., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 1-18

digenetic trematodes, behaviour, review (reproduction, hatching, penetration, response to toxic and host stimulation; cercarial emergence, swimming)

Behavior, Parasite

Carter, N. P., 1977, Parasitology, v. 75 (2), xi [Abstract]

Schistosoma mansoni cercariae, behavior patterns in relation to age and to stimuli of shadows, turbulence, and chemicals

Behavior, Parasite

Croll, N. A., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 31-52

larval nematodes, behavior, review (nematode senses, locomotion, movement patterns as tracked on agar, mechanisms of orientation)

Behavior, Parasite

Croll, N. A., 1975, Advances Parasitol., v. 13, 71-122

behavioral analysis of nematode movement, extensive review

Behavior, Parasite

Croll, N. A., 1976, Organ. Nematodes (Croll), 343-364

behavioral coordination of nematodes, review: movements of the body and parts of the body; models of behavioral integration; sequential analysis; neurotransmitters and coordination

Behavior, Parasite

Croll, N. A., 1977, Internat. J. Parasitol., v. 7 (3), 201-204

Nippostrongylus brasiliensis, rats, relative importance of active behavioral factors and passive carriage in larval migration between host's tissues and organs

Behavior, Parasite

Croll, N. A.; and Smith, J. M., 1977, Internat. J. Parasitol., v. 7 (3), 195-200

Nippostrongylus brasiliensis in fed vs. fasted rats, 10 vs. 15 day old infections, activity rates, postures, and temporal movement patterns observed in vivo, differences correlated with feeding regime of host and could thus lead to habitat selection

Behavior, Parasite

Doube, B. M., 1975, J. Med. Entom., v. 12 (1), 15-22

Ornithodoros gurneyi, rats (exper.), regulation of circadian rhythms controlling time of detachment of engorged larvae and nymphs, relevance to tick ecology

Behavior, Parasite

Drenner, R. W.; and Camin, J. H., 1977, J. Kansas Entom. Soc., v. 50 (4), 514 [Abstract]
Haemaphysalis leporispalustris, climbing behavior of larvae, role in host-finding and host specificity

Behavior, Parasite

Duke, B. O. L., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 97-107
Loa loa, behavioral aspects of human and simian strains which have contributed to divergent adaptive evolution with 2 separate host-vector complexes that seldom result in parasite interchange

Behavior, Parasite

Fried, B.; and Gioscia, R. M., 1976, J. Parasitol., v. 62 (2), 326-327
Leucochloridium constantiae, tentative identification of cholesterol as chemoattractant for metacercarial pairing

Behavior, Parasite

Grabda-Kazubska, B., 1969, Acta Parasitol. Polon., v. 16 (20-27), 1968-1969, 249-269
Opisthioglyphe ranae, *O. rastellus*, life cycle, cercarial behavior, penetration, development; abbreviation of life cycles

Behavior, Parasite

Grainger, R. C., 1977, Parasitology, v. 75 (2), viii [Abstract]
Cryptocotyle lingua, distribution of metacercariae on dorsal surfaces of fishes correlated with cercarial behavior

Behavior, Parasite

Guillot, F. S.; et al., 1977, Ann. Entom. Soc. Am., v. 70 (4), 588-590
Cochliomyia hominivorax, feeding behavior and reproductive status of females attracted to a host, relationship to mating and ovarian development

Behavior, Parasite

Haas, W., 1976, Ztschr. Parasitenk., v. 49 (1), 63-72
Schistosoma mansoni cercariae, attachment response, stimulated by temperature rise, reactions to animal substance in substrate (human, swine, fish, frog, snail, cercariae)

Behavior, Parasite

Hipeau-Jacquotte, R., 1977, Marine Biol., v. 44 (1), 57-63
Pachypygus gibber, pelagic larvae, phototropic reactions (threshold reaction, orientation towards light, speed and form of motility) based on age and stage of parasite

Behavior, Parasite

Holmes, J. C.; and Bethel, W. M., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 123-149
 parasite modification of intermediate host behavior in order to increase vulnerability of intermediate host to predation by definitive host; reversal of phototaxis by cystacanths of *Polymorphus paradoxus* produces altered evasive response in *Gammarus lacustris* vectors which in turn increases vulnerability of infected vectors to ingestion by mallard duck hosts

Behavior, Parasite

Hommel, M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 3 [Demonstration]
Trypanosoma evotomys kudickei, developmental behavior of trypanosomes in culture

Behavior, Parasite

Howell, F. G., 1976, J. Med. Entom., v. 13 (1), 99-106
Argas cooleyi, behavior responses to directed and undirected light, daily light cycle, effect of low temperature

Behavior, Parasite

Howell, F. G.; and George, J. E., 1973, J. Med. Entom., v. 10 (5), 459-469
Argas cooleyi, behavior and water balance, various relative humidities

Behavior, Parasite

Iqbal, Q. J.; and Humphries, D. A., 1974, Pakistan J. Zool., v. 6 (1-2), 163-174
Nosopsyllus fasciatus, sequence of actions during mating, initiation by contact-chemical stimulus, negative phototactic behaviour

Behavior, Parasite

Kemp, D. H.; et al., 1976, Parasitology, v. 73 (1), 123-136
Boophilus microplus on British breed cattle with different resistance levels, growth and attachment behaviour of larvae, desiccation of larvae in environment of host skin, movement to and accumulation in favored sites

Behavior, Parasite

Kunz, P.; and Klingler, J., 1976, Nematologica, v. 22 (4), 477-479
 nematode tracks, method for direct or microscopic observation and photography

Behavior, Parasite

Lawson, J. R., 1977, Parasitology, v. 75 (2), xi-xii [Abstract]
Schistosoma mansoni cercariae, survival in relation to environmental temperature, activity pattern, infectivity, glycogen content

Behavior, Parasite

Layton, E. C.; and Sonenshine, D. E., 1975, J. Med. Entom., v. 12 (3), 287-295
Dermacentor variabilis, *D. andersoni*, females, structure of glands associated with foveae dorsales, histology and scanning electron microscopy, changes during feeding, possible role in sex pheromone activity

Behavior, Parasite

Leahy, (Sr.) M. G.; et al., 1975, J. Med. Entom., v. 12 (3), 284-287
Ornithodoros moubata, female assembly pheromone induces male assembly; male pheromone induces male and female aggregation; extraction of female pheromones; removal of olfactory sensillae reduces or eliminates response

Behavior, Parasite

Leahy, (Sr.) M. G.; et al., 1975, J. Med. Entom., v. 12 (4), 413-414
assembly pheromones from *Ornithodoros* and *Argas* species, interspecific responses; feeding increased pheromone production and decreased response; possible function in host location

Behavior, Parasite

Leahy, M. G.; et al., 1976, Vet. Parasitol., v. 1 (3), 249-256
Rhipicephalus appendiculatus, attraction of male to female ticks in relation to feeding, results suggest possible existence of female sex pheromone

Behavior, Parasite

Llewellyn, J., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 19-30
monogenean trematodes, invasive behavior, review

Behavior, Parasite

McMahon, J. E., 1976, Internat. J. Parasitol., v. 6 (5), 373-377
Schistosoma haematobium, human, diurnal pattern of egg excretion, no evidence found to support hypothesis that rhythm is due to rapid increase in bladder activity in early morning, partial reversion of rhythm in day-shift workers changed to night-shift, possible role of host factors

Behavior, Parasite

Markus, M. B., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 535 [Letter]
human malaria, support for hypothesis that sporozoites remain dormant after entering host body and are mechanisms responsible for relapse phenomenon and extended prepatent period; likened to similar behavior of some *Isospora* spp.

Behavior, Parasite

Mason, P. R., 1977, Parasitology, v. 75 (3), 325-338
Schistosoma mansoni, miracidial response to snail-conditioned water (SCW), effect of various treatments of SCW on its ability to stimulate miracidial activity, importance of 'active spaces' rather than concentration gradients in miracidial host-location

Behavior, Parasite

Mason, P. R.; and Fripp, P. J., 1976, J. Parasitol., v. 62 (5), 721-727
Schistosoma mansoni, miracidial movement in relation to age, temperature, pH, light intensity, light shock, and snail-conditioned water, dark-ground photographic technique

Behavior, Parasite

Mohandas, A., 1974, Proc. National Acad. Sc. India, Sect. B, v. 44 (3), 139-144
cercariae, factors influencing emergence, behavior and viability

Behavior, Parasite

Nadakal, A. M.; and Mohandas, A., 1975, Riv. Parasitol., Roma, v. 36 (2-3), 197-206
Kiricephalus pattoni, general distribution of glycogen, proteins, lipids, ascorbic acid and enzymes in tissues of representative pentastomids and correlations with known behavior suggests oxidative metabolism in this parasite

Behavior, Parasite

Norval, R. A. I., 1975, J. Parasitol., v. 61 (4), 730-736
Haemaphysalis silacea, ecology: habitat preferences, distribution in relation to microclimatic conditions, seasonal activity, seasonal occurrence on hosts, sex ratio of ticks, host/tick interactions as result of host daily movements and feeding habits, site of attachment: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Behavior, Parasite

Norval, R. A. I., 1975, J. Parasitol., v. 61 (4), 737-742
Amblyomma marmoreum, ecology: habitat preference, seasonal activity, seasonal occurrence on hosts, life cycle in laboratory correlated with field observations, temperature dependence of feeding time, effects of host seasonal behavior: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Behavior, Parasite

Nwosu, A. B. C.; and Croll, N. A., 1977, Exper. Parasitol., v. 43 (1), 100-106
Ancylostoma tubaeforme, infective larvae, movement, mechanism of wave propagation

Behavior, Parasite

Oliver, J. H., jr.; Murphy, R. W.; and Obenchain, F. D., 1975, J. Parasitol., v. 61 (4), 782-784
Amblyomma americanum, effects of mechanical and chemical stimulation on rapid engorgement behavior and subsequent egg development in unmated females

Behavior, Parasite

Pearce, M. A.; Irvin, A. D.; and Purnell, R. E., 1973, Bull. Epizoot. Dis. Africa, v. 21 (1), 29-31
maintenance of *Hyalomma albiparmatum* under laboratory conditions, behavior as a two-host or part three-host tick when feeding on rabbits

Behavior, Parasite

Preston, P. J.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 17 [Demonstration]
Nippostrongylus brasiliensis, in vitro and in vivo, isotope scanning, potential for study of parasite migration and behavior in living host

Behavior, Parasite

Rechav, Y.; Whitehead, G.B.; and Knight, M.M., 1976, Nature, London (5544), v. 259, 563-564
Amblyomma hebraeum, aggregation response of nymphs to pheromone(s) produced by males

Behavior, Parasite

Roberts, T. M.; and Thorson, R. E., 1977, J. Parasitol., v. 63 (2), 357-363

Nippostrongylus brasiliensis, chemical attraction between adults both within host intestine and in vitro with particular regard to effect of host immunity on parasite behavior

Behavior, Parasite

Roberts, T. M.; and Thorson, R. E., 1977, J. Parasitol., v. 63 (4), 764-766

Nippostrongylus brasiliensis, pairing between adults and other species of nematodes in vitro, comparison of intra and interspecific response patterns, results suggest that pairing is not related entirely to sexual attraction

Behavior, Parasite

Robertson, A. S.; et al., 1975, J. Med. Entom., v. 12 (5), 525-529

Amblyomma americanum, unfed male and female adults, daily and seasonal behavior in relation to temperature, humidity, and photoperiod in different habitats, behavioral patterns suggest activity regulation by body water content: Cookson Hills State Game Refuge, Cherokee County, Oklahoma

Behavior, Parasite

Robertson, A. S.; et al., 1975, J. Med. Entom., v. 12 (5), 530-534

Amblyomma americanum, molting behavior of engorged nymphs and larvae in 2 contrasting habitats, effect of environmental conditions on molting time and post-molt activity: Cherokee Co., Oklahoma

Behavior, Parasite

Semtner, P. J.; and Hair, J. A., 1973, J. Med. Entom., v. 10 (4), 337-344

Amblyomma americanum adults, daily and seasonal activity patterns, vertical migration, climatic conditions, different habitat types

Behavior, Parasite

Semtner, P. J.; Sauer, J. R.; and Hair, J. A., 1973, J. Med. Entom., v. 10 (2), 202-205

Amblyomma americanum, molting time of replete nymphs under field conditions, seasonal variance; post-molt behavior of adults during first and second summer in different habitats, survival, overwintering success

Behavior, Parasite

Sponholtz, G. M.; and Short, R. B., 1976, J. Parasitol., v. 62 (1), 155-157

Schistosoma mansoni, miracidia, stimulation by snail (*Biomphalaria glabrata*)-conditioned water, evidence that lowered calcium/magnesium ratio may be important in attracting miracidia to snails

Behavior, Parasite

Stibbs, H. H.; et al., 1976, Nature, London (5553), v. 260, 702-703

magnesium emitted by *Biomphalaria glabrata* alters swimming behaviour of *Schistosoma mansoni* miracidia

Behavior, Parasite

Treverrow, N. L.; Stone, B. F.; and Cowie, M., 1977, Experientia, v. 33 (5), 680-682

Ixodes holocyclus, *Aponomma concolor*, aggregation pheromones demonstrated

Behavior, Parasite

Webb, J. P., jr.; George, J. E.; and Cook, B., 1977, Nature, London (5593), v. 265, 443-444

Ornithodoros concanensis makes use of vocal sound of *Petrochelidon pyrrhonota* as a cue in its host-finding behavior

Behavior, Parasite

Whitfield, P. J.; and Anderson, R. M., 1977, Parasitology, v. 75 (2), viii-ix [Abstract]

Transversotrema patialense cercariae, activity patterns, age-dependent changes

Behavior, Parasite

Whitfield, P. J.; Anderson, R. M.; and Bundy, D. A. P., 1977, Parasitology, v. 75 (1), 9-30

Transversotrema patialense, cercarial behavior, activity patterns, age and temperature dependence, speed and duration, neural control and energetic significance

Behavior, Parasite

Wilson, D. S., 1977, Behavior Ecol. and Sociobiol., v. 2 (4), 421-425

analysis of altruistic behavior of *Dicrocoelium dendriticum* in ant host, mathematical model; theoretically possible for behavior to evolve even when parasites of one host are derived from as many as five different parents

Behavior, Parasite

Wilson, P. A. G., 1977, Parasitology, v. 75 (2), 233-239

Strongyloides ratti, rats (exper.), maternal worm burden when weaning is varied in relation to injection, effect of short-term stimulus (only 1 hr suckling) on maternal worm burden, working hypothesis to explain path-finding by migrating worms in lactating rats

Behavior, Parasite

Wilson, R. A.; Lawson, J. R.; and Draskau, T., 1977, Parasitology, v. 75 (2), xii [Abstract]

Schistosoma mansoni, schistosomulum, changes in body shape and activity pattern during migration from skin to hepatic portal system, changes appear to be related to worm ability to crawl along capillaries

Behavior, Parasite

Worms, M. J., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 53-67

microfilariae, *Plasmodium* spp., trypanosomes, rhythmic behavior, significance in relation to transmission, review

Behavior, Parasite

Wright, C. A.; and Southgate, V. R., 1976, Symposia Brit. Soc. Parasitol., v. 14, 55-86

hybridization of schistosomes (history, reciprocity of interspecific pairings, egg morphology of hybrids, intermediate and definitive host infectivity of hybrids, behavior of hybrid cercariae, isoenzymes of hybrids), review with results of recent work on *Schistosoma haematobium* X *S. intercalatum*, practical implications, symposium presentation

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leishmaniasis, bibliography (1860-1974): Algeria

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Leishmania donovani, extensive review of human visceral leishmaniasis as world wide problem, geographic distribution, parasite life cycle, bibliography

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coccidiosis, review and comments on the French literature

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Pneumocystis carinii, historical perspective of interstitial plasma cell pneumonia of humans, opening remarks of symposium, bibliography of world literature from 1959

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Toxoplasma gondii, toxoplasmosis, Brazilian bibliography (1908-1974)

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

Levy, R.; Murphy, L. J., jr.; and Miller, T. W., jr., 1976, *Mosquito News*, v. 36 (4), 498-501

Reesimeris nielseni, effects of pressure and nozzle impact of simulated aerial spray system of dissemination, no apparent loss of viability, infectivity, or development, tested against field-collected and laboratory-reared *Culex pipiens quinquefasciatus* larvae

Biological control

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Schistosoma spindale, trials of biological control by means of antagonistic mixed *Echinostoma malayanum-Schistosoma spindale* infections in *Indoplanorbis exustus* vector snails; control achieved only after excessively prolonged release of *Echinostoma malayanum* eggs into target ponds: Thailand

Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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Biological control

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- Biological control
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- Biological control
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Zonitoides nitidus, predation on *Lymnaea truncatula* and other molluscs

Biological control

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Biological control

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Fasciola hepatica, *Potamopyrgus jenkinsi* is not a vector, field and laboratory investigations of its possibilities for use as a competitor of *Lymnaea*

Biological control

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Biological control

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Lymnaea truncatula, population dynamics in 4 types of habitats observed over 4 year period, effect of regular drainage maintenance and of predation by *Zonitoides nitidus*: Haute-Vienne, France

Biological control

Rondelaud, D., 1977, Ann. Parasitol., v. 52 (5), 521-530
 results and problems posed by introduction of *Zonitidae* predators in different habitats of *Lymnaea truncatula*: Indre and Haute Vienne, France

Biological control

Rosen, L., et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 906-913
 unsuccessful field trial of competitive displacement of *Aedes polynesiensis* (principal vector of nonperiodic filariasis caused by *Wuchereria bancrofti*) by *Aedes albopictus* (refractory to development of human filariae): Taiaro, remote Pacific coral atoll

Biological control

Samson, K. S.; and Wilson, G. I., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 112-113
Fasciola hepatica, Rouen ducks possible biological control agents, passage of metacercariae through ducks, infectivity for lambs, 99% reduction of viable metacercariae

Biological control

Sanders, R. D.; and Poinar, G. O., jr., 1976, J. Invert. Path., v. 28 (1), 109-119
Pleistophora probably n. sp. in *Aedes sierrensis*, development and fine structure, potential as biological control agent

Biological control

Sasa, M.; et al., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 415 [Demonstration]
 filariasis, possible use of poeciliid fishes for biological control of mosquito vectors

Biological control

van der Schalie, H.; and Blankespoor, H., 1977, Biologist, v. 59 (1), 16-24
 schistosomiasis and fascioliasis, potential use of solar energy for snail-host control, temperature stress, growth and reproduction of snail

Biological control

Schneider, C. R.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 169-170
 hydrobiid snail *Pachydrobia bavayi* attracts miracidia of Mekong schistosomiasis but is not capable of carrying life cycle to completion; possible use as decoy snail under natural conditions to reduce miracidial density

Biological control

Shepherd, R. C. H.; and Edmonds, J. W., 1976, Austral. Wildlife Research, v. 3 (1), 29-44
Spilopsyllus cuniculi, establishment and spread after release on wild population of *Oryctolagus cuniculus* for possible control of rabbit population by myxoma virus, quicker spread when released during host breeding season, upon release myxoma-infected fleas did not become established, localization on hosts, 4 year period: Mallee region, Victoria

Biological control

Snow, J. W.; Hofmann, H. C.; and Baumhover, A. H., 1977, Southwest. Entom., v. 2 (4), 202-206
Cochliomyia hominivorax, serious pest of live-stock, feasibility of eradication by sterile insect method: Jamaica

Biological control

Sohi, S. S.; and Wilson, G. G., 1976, Canad. J. Zool., v. 54 (3), 336-342
Nosema disstriae, cell lines developed from hemocytes and ovarian tissues of naturally infected *Malacosoma disstria* larvae, spores from hemocyte cultures infectious to host larvae, possible use in large-scale production of insect pathogens; ovarian cultures disappeared after several passages

Biological control

Sucharit, S.; Chandavimol, Y.; and Sornmani, S., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (4), 581-585
Sepedon spangleri, a snail-killing fly, laboratory trials testing ability to kill helminth vector snails of medical importance in Thailand

Biological control

Sudarikov, V. E.; and Shigin, A. A., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 168-180
 Trematoda, aquatic animals as eliminators (fish, molluscs, aquatic insects, crustaceans); possible measures for trematode control (introduction of eliminators or changing existing structure of biocenosis)

Biological control

Summerlin, J. W.; et al., 1977, Environment. Entom., v. 6 (3), 440-442
Haematobia irritans, suppression of horn fly populations with *Onthophagus gazella* and *Solenopsis invicta*

- Biological control
Thomas, V.; and Ramachandran, C. P., 1970, Med. J. Malaya, v. 24 (3), 196-199
laboratory trials with *Culex pipiens fatigans* to replace indigenous parasite-susceptible strains with parasite-resistant strains as possible biological control measure against *Wuchereria bancrofti*
- Biological control
Tsacas, L.; and Disney, R. H. L., 1974, Tropenmed. u. Parasitol., v. 25 (3), 360-377
two new African species of *Drosophila* whose larvae feed on *Simulium* larvae, possible role in biological control of *S. damnosum*
- Biological control
Uhrin, M. G.; Bendezu, P.; and Jobin, W. R., 1977, J. Agric. Univ. Puerto Rico, v. 61 (2), 230-233
refractivity of *Marisa cornuarietis* (biological control agent), *Pomacea australis* and *Tarebia granifera* (both potential biological control agents) to *Schistosoma mansoni* and *Fasciola hepatica* infections
- Biological control
Undeen, A. H.; and Alger, N. E., 1977, Science Biol. J., v. 3 (1), 259-262
Nosema algerae in white mice (exper.), antibody detected by indirect fluorescent antibody test and by slide spore agglutination test, possible usefulness in safety evaluation phase of prospective microsporidia biological control agents to determine mammalian exposure
- Biological control
Velimirovic, B.; and Clarke, J. L., 1975, Tropenmed. und Parasitol., v. 26 (4), 503-506
possible use of larvivorous fishes in wells as biological control against culicine vectors of human filariasis: Maldives Republic
- Biological control
Virat, M.; and Gevrey, T., 1976, Ztschr. Parasitenk., v. 48 (3-4), 299 [Abstract]
Haemonchus contortus, infectious larvae, trapping activity of several species of predacious fungi, adhesive networks more effective than sticky knobs or constricting rings, *Arthrotrys oligospora* and *Dactylaria thaumasia* more effective species, invasion of worms
- Biological control
Virat, M.; and Peloille, M., 1977, Ann. Recherches Vet., v. 8 (1), 51-58
predatory activity of fungus *Arthrotrys oligospora* against larvae of *Haemonchus contortus*, optimal temperatures, larval density
- Biological control
Watts, K. J.; and Combs, R. L., jr., 1977, Environment. Entom., v. 6 (6), 823-826
hymenopterous parasites of *Haematobia irritans*, efficiency as biological control agents: Oktibbeha County, Mississippi
- Biological control
Wilson, G. G., 1977, Canad. Entom., v. 109 (7), 1021-1022
Nosema disstriae, *Pleistophora schubergi*, possible biological control agents of *Malacosoma disstria* (exper.), host survival
- Biological control
Windels, M. B.; Chiang, H. C.; and Furgala, B., 1976, J. Invert. Path., v. 27 (2), 239-242
Nosema pyrausta, infected pupa and adult *Ostrinia nubilalis*, adverse effect on host longevity, oviposition, fecundity and fertility
- Biological control
Woodard, D. B.; and Fukuda, T., 1977, Mosquito News, v. 37 (2), 192-195
Diximermis peterseni as biological control agent for *Anopheles quadrimaculatus*, laboratory resistance, mechanism is behavioural (avoidance of attack and snapping at nematodes by mosquito larvae during exposure)
- Biological control
Zaman, V., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (1), 112
Sarcocystis orientalis, study of host range shows this species to be a highly pathogenic parasite of *Rattus* genus, not infective for common domestic and laboratory animals, possible use in biological control of rats
- Biological tags. See Tagging.
- Biometrics. See Technique, Statistical methods.
- Bionomics. See Ecology.
- Bladder. See Urine and urinary tract.
- Blindness. See Eye.
- Blood. [See also Anemia; Cardiovascular system; Disease transmission, Blood; Eosinophilia; Hemoglobin; Hemorrhage; Leukemia; Proteins, Blood]
- Blood
Al-Khateeb, G. H.; and Hansen, M. F., 1973, Avian Dis., v. 17 (2), 269-273
Histomonas meleagridis, turkeys (exper.), plasma glutamic oxalacetic transaminase level, correlation with number of liver lesions, salfuride treatment reduced number of liver lesions and lowered plasma GOT levels, useful as indicator of course of disease and for screening potential histomonastats
- Blood
Allen, W. M.; et al., 1973, J. Comp. Path., v. 83 (3), 369-375
Eimeria brunetti, chickens experimentally infected at 2 different dose rates, physiological changes, plasma protein and electrolyte alterations, weight loss
- Blood
Allonby, E. W.; and Urquhart, G. M., 1976, Research Vet. Sc., v. 20 (2), 212-214
Haemonchus contortus, Merino sheep, possible relationship between haemoglobin type and resistance to haemonchosis: Kenya

- Blood
Amborski, G. F.; Bello, T. R.; and Torbert, B. J., 1974, *Am. J. Vet. Research*, v. 35 (9), 1181-1188
Strongylus vulgaris, more adverse host reaction in parasite-free ponies than in ponies sensitized by previous natural infection, changes in serum glycoprotein patterns may be related to arterial damage associated with larval migrations
- Blood
Aminzhanov, M., 1975, *Dokl. Akad. Nauk UzSSR* (10), 57-58
echinococcosis, sheep, decreased zinc in serum, increased vitamin C in lungs, liver and spleen
- Blood
Angus, M. G. N.; Fletcher, K. A.; and Macgraith, B. G., 1971, *Ann. Trop. Med. and Parasitol.*, v. 65 (4), 429-439
Plasmodium knowlesi-infected Macaca mulatta, changes in erythrocyte lipids
- Blood
Ansari, A.; and Williams, J. F., 1976, *J. Parasitol.*, v. 62 (5), 728-736
Taenia taeniaeformis, rats, haematologic parameters, reproducible pattern of eosinophilia in peripheral blood and liver, brisk secondary eosinophilic response following challenge in immune animals
- Blood
Areekul, S., 1972, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 3 (4), 617-618
Plasmodium knowlesi in Macaca mulatta (exper.), infected red cells travel at same rate as normal red cells with no evidence of being trapped in capillaries of brains of infected monkeys when compared with normal controls
- Blood
Areekul, S., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (2), 310-312
human hookworm, changes in blood volume, red cell volume and plasma volume in infected persons compared with normal subjects
- Blood
Areekul, S.; et al., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 568-569 [Demonstration]
hookworms, humans and dogs, inverse relationship between number of worms and blood loss per worm per day
- Blood
Areekul, S.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (1), 107 [Demonstration]
comparison of serum vitamin B₁₂ levels in patients with hepatic amoebic abscess, opisthorchiasis or hookworm infections
- Blood
Areekul, S.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (3), 375-379
amoebiasis, opisthorchiasis, humans, changes in serum vitamin B₁₂ in presence of infections
- Blood
Areekul, S.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (3), 408 [Demonstration]
Plasmodium coatneyi, turnover rate of ¹³¹I-fibrinogen compared in normal and infected monkeys
- Blood
Areekul, S.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (4), 455-461
Plasmodium coatneyi, metabolism of ¹³¹I-labelled fibrinogen in infected rhesus monkeys (exper.) and comparison with normal controls
- Blood
Areekul, S.; et al., 1972, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 3 (4), 619-620
Plasmodium falciparum, density distribution of red cells in infected humans, results show that infected blood had lower specific gravity than normal blood
- Blood
Areekul, S.; et al., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (4), 474-480
Plasmodium knowlesi in Macaca mulatta, alteration of liver blood flow and phagocytic activity of reticuloendothelial system in infected monkeys with return to normal values after recovery
- Blood
Areekul, S.; et al., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (4), 492-498
Plasmodium berghei, erythrocyte adenosine triphosphate levels in infected mice (exper.) compared with levels in normal mice, levels in infected mice found to be considerably higher
- Blood
Areekul, S.; et al., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (3), 452 [Demonstration]
P[lasmodium] spp., erythrocyte adenosine triphosphate content compared in controls and infected man, monkeys and mice
- Blood
Areekul, S.; Kanakakorn, K.; and Kasemsuthi, R., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (2), 261-262
Plasmodium coatneyi in Macaca mulatta (exper.), mechanism of intravascular haemolysis occurring in infected monkeys
- Blood
Areekul, S.; Kanakakorn, K.; and Kasemsuth, R., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (4), 584 [Demonstration]
Plasmodium coatneyi, estimates of fraction of intravascular haemolysis taking place in a continuing process of haemolysis during course of infection in Macaca mulatta (exper.)
- Blood
Armengaud, M.; et al., 1975, *Medecine Afrique Noire*, v. 22 (5), 363-366
human Plasmodium falciparum, blood coagulation and therapy in acute illness

Blood

Artigas, J.; Otto, I.; and Kawada, M. E., 1966, Bol. Chileno Parasitol., v. 21 (4), 114-118

Entamoeba histolytica, pathologic effects of motile trophozoites on human leucocytes compared with non-motile *E. moshkovskii* and another free-living amoeba both of which showed no action in blood cells; possible use in differentiating *E. histolytica* from *E. hartmani*

Blood

Ayala, S. C.; and Spain, J. L., 1976, J. Parasitol., v. 62 (2), 177-189

Plasmodium colombiense sp. n. in *Anolis aeneus*, host blood pictures, parasitemia, parasite structure and structural variance, infection states, host population structure, epidemiology: western Colombia (Cauca River valley basin)

Blood

Bachmann, A. W.; et al., 1976, Tropenmed. u. Parasitol., v. 27 (3), 372-376

Babesia argentina, cattle, pre-infection levels of erythrocyte adenosine triphosphate, no significant correlation with susceptibility to infection

Blood

Bachmann, A. W.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (3), 361-366

Babesia argentina, experimental infection in Droughtmaster cattle which are somewhat resistant to babesiosis, no apparent correlation between hemoglobin types and resistance to infection

Blood

Baker, J. R.; and Taylor, A. E. R., 1971, Ann. Trop. Med. and Parasitol., v. 65 (4), 471-485

Trypanosoma brucei brucei- and *T. brucei rhodesiense*-infected Pan troglodytes (exper.), course of infection, serologic relationships between trypanosome species and strains, blood changes, cerebrospinal fluid changes, post-mortem observations

Blood

Balbo, T.; et al., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 33-71

Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology, blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)

Blood

Baqui, A.; and Ansari, J. A., 1975, Indian J. Zool., v. 3 (1-2), 43-48

Setaria cervi, white rats (blood) (exper.), leucocytic response

Blood

Barnes, G. L.; and Kay, R., 1977, Lancet, London (8015), v. 1, 808 [Letter]

Giardia lamblia, possible association between susceptibility to infection and persons with blood group phenotype A

Blood

Barrowman, P. R., 1976, Onderstepoort J. Vet. Research, v. 43 (4), 201-202

Trypanosoma equiperdum, horse, experimental infection via cerebrospinal fluid of subarachnoid space, ability to cross blood-brain-barrier, possible future studies

Blood

Batte, E. G.; McLamb, R. D.; and Vestal, T. J., 1976, Pathophysiol. Parasit. Infect., 69-73

Trichuris suis, pigs, clinical signs, hypoalbuminaemia, increase in serum alpha, beta, and gamma globulin, depressed serum calcium levels, no correlated changes in zinc levels, serum creatinine, SGPT, blood sugars, hemoglobin, bilirubin, or BUN

Blood

Beach, D. H.; Sherman, I. W.; and Holz, G. G., jr., 1977, J. Parasitol., v. 63 (1), 62-75

Plasmodium lophurae, lipids of parasite and of erythrocytes and plasma of normal and infected Pekin ducklings

Blood

Bemis, D. A.; and Georgi, J. R., 1972, Cornell Vet., v. 62 (4), 680-685

Obeliscoides cuciculi, rabbits (exper.), estimated erythrocyte loss, concluded that *O. cuciculi* is not a significant bloodsucker

Blood

Bennett, G. F., 1973, J. Wildlife Dis., v. 9 (1), 85-93

Cuterebra emasculator, *Tamias striatus* (nat. and exper.), haematological values of infected vs. uninfected chipmunks, adverse effects of infection on activity and feeding subsequent to parasite leaving host: Ontario

Blood

Bezubik, B., 1969, Acta Parasitol. Polon., v. 17 (1-19), 1-9

Strongyloides papillosus, rabbits, human gamma globulin beneficial as expressed by host weight, parasite egg production, and blood values; infection more severe in younger hosts

Blood

Bier, J. W.; Jackson, G. J.; and Gerding, T. A., 1976, Tr. Am. Micr. Soc., v. 95 (2), 265 [Abstract]

Anisakis sp., *Phocanema* sp., blood analysis of experimentally infected pigs showed mild eosinophilia and increased levels of amylase, lactic dehydrogenase, and bilirubin

Blood

Birova-Volosinovicova, V., 1974, Biologia, Bratislava, s. B, Zool. (1), v. 29 (2), pp. 151-157

A[scaridia] *galli* in chicks treated with hormones (ACTH and cortisone), blood values (erythrocytes, leucocytes, haemoglobin, leucogram) same as normal chicks or infected, untreated chicks

- Blood**
Boreham, P. F. L.; and Facer, C. A., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 279 [Abstract]
Trypanosoma brucei, rabbits, marked increases in concentration of fibrinogen degradation products
- Blood**
Boreham, P. F. L.; and Facer, C. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 153 [Abstract]
T[rypanosoma] brucei, rabbits (exper.), changes in plasma fibrinogen concentration during infection, possible relationships to disease pathologic features
- Blood**
Boreham, P. F. L.; and Facer, C. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 274 [Abstract]
Trypanosoma brucei, experimental rabbits, changes in blood viscosity
- Blood**
Brown, L. A.; and Losos, G. J., 1977, Research Vet. Sc., v. 23 (2), 196-203
Trypanosoma congolense and T. brucei, comparative pathology in both bled and non-bled albino rats (exper.): parasitemia, packed cell volumes, weight of spleen and lymph, histology of thymus, spleen, lymph nodes, and bone marrow
- Blood**
Boulton, F. E.; Jenkins, G. C.; and Lloyd, M. J., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 153-154 [Abstract]
T[rypanosoma] brucei-infected rabbits, changes in clotting mechanism during infections and possible role of disseminated intravascular coagulation in causing hemolysis and anemia; increased production of clotting proteins
- Blood**
Camus, D.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 182 [Letter]
Schistosoma mansoni, study of distribution of A, B and O blood groups in persons with mild and severe forms of infection suggests definite correlation between blood group and tendency to develop severe infection
- Blood**
Capbern, A.; et al., 1977, Ann. Parasitol., v. 52 (3), 237-251
Trypanosoma equiperdum, 2 strains giving rise to different clinical disease in rabbits (exper.), aspects of immune response (specific antibodies, hypermacroglobulinemia, anti-fibrinogen auto-antibodies) and coagulation disorders
- Blood**
Capdevielle, P.; et al., 1975, Medecine Trop., v. 35 (5), 426-428
human ancylostomiasis, decreased prothrombin time as possible indicator of presence of infection
- Blood**
Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, Am. J. Vet. Research, v. 37 (9), 1059-1063
Anaplasma marginale, effect of blood group substances vs. parasitic components on induction of delayed cutaneous hypersensitivity and production of isoagglutinins in cattle injected with live or inactivated parasites in ovine or bovine erythrocytes, results indicate that inactivated sheep origin vaccine may avoid eliciting neonatal isoerythrolysis syndrome in calves from vaccinated dams
- Blood**
Chapman, H. D., 1974, Research Vet. Sc., v. 16 (1), 1-6
lambs under a husbandry system with crowded indoor housing, performance in 2 separate trials: growth during acquisition of natural mixed coccidial infections; pathogenicity of an artificial infection of primarily Eimeria ninakohlyakimovae, growth, blood changes
- Blood**
Chomicz, L., 1969, Acta Parasitol. Polon., v. 17 (1-19), 47-54
Strongyloides papillosus, immature and mature rabbits, blood picture, age and sex resistance
- Blood**
Coleman, R. M.; et al., 1976, J. Parasitol., v. 62 (1), 133-140
Plasmodium berghei, transitory but heightened rate of destruction of normal transfused erythrocytes in infected rats
- Blood**
Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1976, Research Vet. Sc., v. 21 (3), 253-258
Trichostrongylus colubriformis, lambs, sub-clinical infection, reduced growth rate and food intake, hypophosphataemia, hypoalbuminaemia, hyperglobulinaemia; possible use of plasma constituents in diagnosis
- Blood**
Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1977, Research Vet. Sc., v. 23 (1), 76-83
Ostertagia circumcincta, sheep (exper.), continuous small infections, clinical observations, body weight and food intake, worm populations and faecal egg count, pathology, concentrations of serum constituents and assessment of their value in diagnosis of sub-clinical ostertagiasis
- Blood**
Dalgliesh, R. J.; et al., 1976, Exper. Parasitol., v. 40 (1), 124-131
Babesia argentina, calves (exper.) given betamethasone, fatal pulmonary edema, hematological changes, histopathology, findings established occurrence of disseminated intravascular coagulation
- Blood**
Dalgliesh, R. J.; et al., 1977, Research Vet. Sc., v. 23 (1), 105-108
Babesia bovis, Bos taurus (exper.), protamine sulphate test as a screening test for disseminated intravascular coagulation

- Blood
Dar, F. K.; Paris, J.; and Wilson, A. J., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 287 [Abstract]
Trypanosoma vivax, Zebu cattle, haematological and serum protein changes
- Blood
Decia, C.; and Castro, E. R., 1968, Bol. Chileno Parasitol., v. 23 (1-2), 26-29
Babesia bigemina in calves (exper.), serum proteins and hematologic variations before infection, during prepatent, patent, and convalescent periods
- Blood
DeVaney, J. A.; et al., 1977, Poultry Science, v. 56 (5), 1585-1590
Ornithonyssus sylviarum, White Leghorn roosters, infected and uninfected, mean body weight, reproductive potential studies, hematological values
- Blood
Dhar, S.; and Gautam, O. P., 1977, Indian J. Animal Sc., v. 47 (4), 169-172
Theileria annulata, total serum levels of bilirubin, calcium, sodium and potassium in calves (exper.), use in supportive therapy
- Blood
Dipeolu, O. O.; and Ogunji, F. O., 1977, Bull. Animal Health and Prod. Africa, v. 25 (1), 25-31
Amblyomma variegatum, Hyalomma rufipes, sheep (exper.), haematological changes, more pronounced in adult than in nymphal feeding, estimated weight of blood engorged by ticks
- Blood
Dolan, T. T., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 274 [Demonstration]
Babesia divergens in calves (exper.), B. rodhaini in rats (exper.), thrombocytopenia with marked hemolytic anemia
- Blood
Dolan, T. T.; and Carr, K. E., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 274-275 [Demonstration]
Babesia rodhaini-infected rat erythrocytes, light and electron microscopic scanning of cells for damage, good correspondence between damage and percentage of parasitemia
- Blood
Dotta, U.; et al., 1977, Clin. Vet., Milano, v. 100 (10), 685-696
Ostertagia ostertagi, calves (exper.), clinical manifestations and physiopathological observations
- Blood
Duncan, J. L.; and Pirie, H. M., 1975, Research Vet. Sc., v. 18 (1), 82-93
Strongylus vulgaris, single experimental infections of worm-free pony foals, clinical signs, pathology (intestinal and arterial lesions), and clinical pathology (haematology, serum proteins)
- Blood
Dunkley, L. C.; and Mettrick, D. F., 1977, Exper. Parasitol., v. 41 (1), 213-228
Hymenolepis diminuta, rats, dietary carbohydrate intake, host's intestinal and blood plasma glucose levels, worm migration
- Blood
Dymowska, Z.; Migdalska, Z.; and Kraus, A., 1971, Med. Dosw. i Mikrobiol., v. 23 (2), 167-173
Toxoplasma, immunized rabbits (exper.), evaluation of immune and cellular reactions using percent pattern of hemogram
- Blood
El-Abdin, Y. Z.; et al., 1975, Egypt. J. Vet. Sc., v. 12 (1), 31-43
serum constituents and serum enzyme activities, normal and nematode infested Camelus dromedarius: Cairo abattoir
- Blood
El-Abdin, Y. Z.; Mossalam, I.; and Hamza, S. M., 1975, Egypt. J. Vet. Sc., v. 12 (2), 143-152
Neoascaris vitulorum, buffalo calves, blood picture, biochemical blood constituents, enzyme activities, before and after treatment with Concurat
- Blood
Enigk, K.; and Dey-Hazra, A., 1975, Vet. Parasitol., v. 1 (1), 69-75
Strongyloides ransomi-infected piglets, measurement of plasma and red cell loss into intestinal tract, leakage of plasma protein into gut is greater than can be accounted for in terms of whole blood loss
- Blood
Enigk, K.; Feder, H.; and Dey-Hazra, A., 1976, Tropenmed. u. Parasitol., v. 27 (1), 57-69
mineral contents of blood and chemical composition of muscles of Trichinella spiralis-infected pigs, comparison with normal controls
- Blood
Enigk, K.; Feder, H.; and Dey-Hazra, A., 1976, Zentralbl. Vet.-Med., Reihe B, v. 23 (3), 255-264
Taenia hydatigena, pigs, sheep, normal and high mineral diets, mineral, enzyme, and fatty acid content of cysts and of host blood
- Blood
Evans, W. A., 1974, J. Wildlife Dis., v. 10 (4), 341-346
Sanguinicola klamathensis, growth, mortality, and blood changes of experimentally infected Salmo clarki
- Blood
Facer, C. A., 1976, J. Comp. Path., v. 86 (3), 393-408
Trypanosoma brucei, rabbits (exper.), blood hyperviscosity primarily determined by plasma concentration of macroglobulin and fibrinogen, pathology

- Blood**
Fajardo, L. F., 1973, *Nature* (5405), v. 243, 298-299
Plasmodium falciparum, *P. vivax*, human, ultrastructural changes in blood platelets; *P. berghei*, mice (exper.), presence of parasites in platelets
- Blood**
Fitzgerald, P. R.; and Mansfield, M. E., 1973, *J. Protozool.*, v. 20 (1), 121-126
Eimeria bovis, Holstein-Friesian calves (exper.), monensin incorporated in pelleted feed protected against severe clinical coccidiosis, observations on oocyst discharge in feces, clinical signs, weight gains, food consumption, hemoglobin, packed cell volume, total serum protein, sodium and potassium content of serum, and differential white cell count
- Blood**
Ford, G. E., 1976, *Pathophysiol. Parasit. Infect.*, 83-97
trichostrongylid parasitism of ruminants (with emphasis on *Ostertagia* in cattle), blood pepsinogen estimations: seasonal variation in relation to climate; clinical significance (diagnosis, pathogenesis, response to anthelmintic treatment); parasitological significance; production significance; review
- Blood**
Forrester, D. J., 1975, *Proc. Helminth. Soc. Washington*, v. 42 (2), 171-174
Heligmosomoides polygyrus, blood changes in irradiated experimentally infected mice
- Blood**
Gallie, G. J.; and Sewell, M. M. H., 1976, *Trop. Animal Health and Prod.*, v. 8 (4), 233-242
Taenia saginata, immunization of calves with intramuscular inoculation of non-living antigen or hatched eggs, or oral infection of unhatched eggs, antibody response to challenge infection, serological and haematological responses
- Blood**
Gelpi, A. P.; and King, M. C., 1976, *Science*, v. 191 (4233), 1284
Plasmodium falciparum, *P. vivax*, Duffy blood group antigens, sickle cell trait carriers and resistance to malaria: Saudi Arabia
- Blood**
Gesinski, R. M.; Napoletano, T. S.; and Aigaier, R. J., 1976, *Science Biol. J.*, v. 2 (6), 244-250
Plasmodium berghei, mice, volume changes and osmotic fragility of normal and infected erythrocytes, non-infected erythrocytes from infected animals lyse earlier than erythrocytes from malaria-free animals, malaria-infected erythrocytes were least susceptible to volume changes and lysis
- Blood**
Gillett, M. P. T.; and Besterman, E. M. M., 1977, *Atherosclerosis*, v. 26 (3), 389-390
[Letter]
schistosomiasis *mansoni*, man, plasma and erythrocyte lysolecithin, reduced platelet counts might contribute to low risk of thrombo-embolic disease
- Blood**
Gladney, W. J.; et al., 1973, *J. Med. Entom.*, v. 10 (2), 123-130
Boophilus annulatus, Holstein cattle (exper.), high protein and fat diet vs. low protein and fat diet, effect on host resistance, hematocrit, and serum cholesterol values, and on tick development and numbers; host resistance primarily physiological rather than behavioral (self grooming)
- Blood**
Goldberg, M.; and Gold, D., 1976, *Comp. Biochem. and Physiol.*, v. 54 (2C), 103-107
Fasciola hepatica, rats, hexachlorophene, marked lethal effect on immature and mature flukes but produces toxic effects on host (blood neutrophilia, changes in levels of certain enzymes)
- Blood**
Goldring, O. L.; et al., 1976, *Clin. and Exper. Immunol.*, v. 26 (1), 181-187
Schistosoma mansoni schistosomula cultured in human blood of various specificities, acquisition of A, B, H, and Lewis^x antigens at parasite surface, Rhesus, MN S, and Duffy antigens could not be detected
- Blood**
Goodger, B. V., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 1-7
Babesia argentina, experimentally infected cattle dying from heavy infection, cold precipitable fibrinogen complex in plasma, possibly formed by proteolytic enzymes from parasite
- Blood**
Gorenflot, A.; et al., 1976, *Ann. Pharm. Franc.*, v. 34 (5-6), 199-209
Plasmodium berghei, mice, morphology of infected erythrocytes, optical and scanning electron microscopy, proposed hypothetical cycle explaining erythrocyte polymorphism
- Blood**
Govindwar, S. L.; Ghirnikar, S. N.; and Hari-nath, B. C., 1976, *Indian J. Med. Research*, v. 64 (11), 1607-1610
Wuchereria bancrofti, microfilaria carriers, chronic filarial patients and normal controls, biochemical study of blood samples comparing parameters of proteins, lipids, electrolytes, enzymes
- Blood**
Greenwood, B. M.; and Whittle, H. C., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 390-394
Trypanosoma gambiense, human, no evidence of disseminated intravascular coagulation, moderate degree of thrombocytopenia, raised levels of fibrin degradation products; failure to produce thrombocytopenia in vitro
- Blood**
Grys, E.; and Hernik, A., 1974, *Poliski Tygod. Lekar.*, v. 29 (7), 267-269
Trichomonas vaginalis and its culture filtrates able to cause hemolysis of human and rabbit red blood cells

Blood

Gupta, G. C.; Joshi, B. P.; and Rai, P., 1976, Indian Vet. J., v. 53 (6), 438-441
Neoscaris vitulorum, buffalo calves, pathogenesis, biochemical alterations in host blood suggest severe hepatic insufficiency

Blood

Haroun, E. M.; and Hussein, M. F., 1975, J. Helminth., v. 49 (3), 143-152
Fasciola gigantica, pathological, haematological, and biochemical aspects of naturally occurring bovine fascioliasis: Sudan

Blood

Haroun, E. M.; and Hussein, M. F., 1976, J. Helminth., v. 50 (1), 29-30
Fasciola gigantica, calves (exper.), pathological, haematological, and biochemical aspects of infection

Blood

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Plasmodium lophurae, pyrimethamine, effect on in vitro incorporation of sodium acetate by lipids of blood from normal and infected ducks, inhibition of lipolysis in both normal and infected blood

Blood

Hart, R. J.; and Wagner, A. M., 1971, Onderstepoort J. Vet. Research, v. 38 (2), 111-116
Gaigeria pachyscelis, sheep (exper.), pathological physiology (macrocytic normochromic anaemia, hypoproteinaemia, hypocalcaemia, hyperglycaemia, eosinophilia); some fatalities, due primarily to loss of blood

Blood

Harvey, J. W.; and Gaskin, J. M., 1977, J. Am. Animal Hosp. Ass., v. 13 (1), 28-38
Haemobartonella felis, cats (exper.), hematology studies, time course of disease

Blood

Hass, D. K., 1976, Experientia, v. 32 (11), 1390-1391
Schistosoma mansoni-infected rhesus monkeys, significant reduction in plasma cholinesterase activity

Blood

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Necator infestation in rural dwelling Fijians and Indians, relationship to mean hemoglobin levels

Blood

Hayden, D. W.; and Van Kruiningen, H. J., 1975, Am. J. Vet. Res., v. 36 (11), 1605-1614
Toxocara canis, dogs (exper.), eosinophilic gastroenteritis, hematologic findings, serum proteins (β -globulin content as potential diagnostic tool), precipitating humoral antibodies, intradermal test, histopathology, comparison with naturally occurring disease

Blood

Heath, A. C. G.; et al., 1977, N. Zealand J. Agric. Research, v. 20 (1), 19-22
Haemaphysalis longicornis, dipped and undipped sheep, tick counts, blood analysis, live-weight gain, wool production and quality: New Zealand

Blood

Heil, R., 1974, Hamatologische Untersuchungen an Säugetieren und Küken nach experimentellen Kokzidien-Infektionen, 137 pp.
 coccidiosis of mammals and chickens, experimental infections, haemoglobin and haematocrit values, differential blood cell counts

Blood

Henriksen, Sv. Aa.; et al., 1976, Vet. Parasitol., v. 2 (3), 259-272
 gastro-intestinal nematodes, young calves during first grazing season, infection levels, blood findings, body weight gains, comparison of animals grazing same pasture entire season with those moved in early July and between levamisole-treated and untreated animals: Denmark

Blood

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T[rypanosoma] congolense, *T. brucei*, rabbits infected and subsequently treated with diminazene aceturate, haematological indices, changes in circulating red cell volume and plasma volume, changes in erythropoiesis, red cell survival studies, dramatic effects of treatment on anemia, similar preliminary results with *T. congolense* in Zebu calves

Blood

Holz, G. G., jr.; Beach, D. H.; and Sherman, I. W., 1977, J. Protozool., v. 24 (4), 566-574
 octadecenoic fatty acid content of lipids of erythrocytes and plasmas of normal and *Plasmodium lophurae*-infected Pekin ducklings and of *P. lophurae* itself, hemolytic properties of octadecenoic fatty acids

Blood

Huntley, C. C.; et al., 1976, Pediatrics, Am. Acad. Pediat., v. 57 (6), 875-883
Toxocara canis and other helminthiasis affecting humans, suspected but not proved relationship between helminthic parasitism of mother and ABO hemolytic disease in the infant, comparison study of populations in Puerto Rico and North Carolina

Blood

Hussein, M. F.; et al., 1975, Ann. Trop. Med. and Parasitol., v. 69 (2), 217-225
Schistosoma bovis, cattle, gross and histopathological lesions, haematological and serum protein findings: Sudan

Blood

Ikede, B. O.; et al., 1977, Trop. Animal Health and Prod., v. 9 (2), 93-98
Trypanosoma brucei in *Equus asini* (exper.), clinical, haematological and pathological studies

Blood

- Jablonowski, Z., 1970, Acta Parasitol. Polon., v. 17 (20-38), 271-284
Ascaris suum, guinea pigs, vitamin C-deficient diet, haemogram level, serum total protein and protein fractions, vitamin C content of various organs

Blood

- Jansen, J., 1977, Trop. and Geogr. Med., v. 29 (3), 316-317 [Abstract]
trichostrongylosis, sheep, questionable correlation between breed susceptibility to infections and hemoglobin types of breeds

Blood

- Jaroonvesama, N., 1972, Lancet, London (7744), v. 1, 221-223
Plasmodium falciparum, elevated fibrin-degradation products in serum of patients with severe falciparum infections suggest that intravascular coagulation is important intermediary mechanism in severe infection

Blood

- Jaroonvesama, N.; et al., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 419-424
 human malaria, degree of changes in coagulation and serum fibrin degradation products varied with severity of infection in falciparum malaria and not at all in vivax malaria, therefore possibly result rather than cause of pathogenesis

Blood

- Jaroonvesama [sic], N.; and Reid, H. A., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (4), 586-587 [Demonstration]
P[lasmodium] berghei, platelets and platelet aggregation in rats and mice (both exper.) infected with chloroquine sensitive and resistant strains of parasites

Blood

- Jenkins, G. C.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 437-438 [Demonstration]
Trypanosoma brucei, rabbits, haematological observations

Blood

- Jenkins, G. C.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 154 [Abstract]
[Trypanosoma] brucei-infected rabbits, anemia associated with infection due to hemolytic mechanism either of immunologic or microangiopathic nature

Blood

- Jenkins, G. C.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 154-155 [Abstract]
[Trypanosoma] brucei-infected rabbits, spleen possibly main destructive agent for red cells during infection and for sequestration of platelets

Blood

- John, D. T., 1974, Proc. Helminth. Soc. Washington, v. 41 (2), 121-126
Angiostrongylus cantonensis, mice (exper.), acquired immunity, weight loss occurred to a lesser degree in immunized mice, they experienced a greater leukocytosis

Blood

- Kadhim, J. K., 1976, Pathophysiol. Parasit. Infect., 105-114
Fasciola gigantica, Awasi sheep (exper.), haematological changes

Blood

- Kadyrov, N. T.; and Suleimenova, F. Z., 1975, Vestnik Sel'skokhoz. Nauki Kazakhstana (12), 91-93
delafondiasis, infected and uninfected horses, blood levels of lactic acid, serum activity of alanine-aminotransferase, aspartate-aminotransferase and aldolase

Blood

- Kasemsuthi, R.; et al., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 558-559 [Demonstration]
Plasmodium coatneyi, fibrinogen metabolism compared in infected and control monkeys

Blood

- Khan, R. A., 1977, J. Fish. Research Bd. Canada, v. 34 (11), 2193-2196
Trypanosoma murmanensis in *Gadus morhua* (exper.), transmitted by leech *Johanssonia* sp. (exper.), hematological changes

Blood

- Kimeto, B. A., 1976, Am. J. Vet. Research, v. 37 (4), 443-447
Theileria parva, cattle, sequence of ultrastructural changes of platelets during fatal course of East Coast fever

Blood

- Kimura, S., 1975, Bull. Nippon Vet. and Zotech. Coll. (24), Dec., pp. 138-142 [Outline of thesis]
Fasciola [sp.], pathogenesis, clinical symptoms, and hematological changes in exper. infected cattle, goats, rabbits, and chickens; morphology in rabbits; intradermal reaction in cattle

Blood

- Kitaoka, S.; and Fujisaki, K., 1976, National Inst. Animal Health Quart., v. 16 (3), 114-121
 tick larvae, nymphs, accumulating process, concentration ratios, ingested blood meals

Blood

- Koenig, E.; and Mirtsch, S., 1976, Ztschr. Parasitenk., v. 50 (2), 184-185
Plasmodium chabaudi-infected mouse erythrocytes, fine structure of erythrocyte membranes

Blood

- Kreier, J. P.; Taylor, W. M.; and Wagner, W. M., 1972, Am. J. Vet. Research, v. 33 (2), 409-414
Plasmodium cynomolgi-infected monkeys, destruction of erythrocytes

Blood

- Kumar, A.; and Rawat, J. S., 1976, Indian J. Animal Sc., v. 45 (3), 1975, 154-156
Eimeria necatrix, *E. acervulina*, chickens (exper.), effect on serum enzymes, blood glucose and cholesterol

- Blood**
Laemmler, G.; Gruener, D.; and Zahner, H., 1975, *Tropenmed. u. Parasitol.*, v. 26 (1), 98-110
Litomosoidea carinii in *Mastomys natalensis* (exper.), peripheral blood composition before and after therapy with diethylcarbamazine or suramin (or combination) or HOE 258 V, effects of therapy on pathologic changes
- Blood**
Laemmler, G.; and Schuster, J., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 66-74
Schistosoma mansoni in *Mastomys natalensis*, chemotherapy with SQ 18.506, pathophysiological investigations (serum sorbitol dehydrogenase activity, numbers of leukocytes and eosinophilic granulocytes)
- Blood**
Laser, H.; and Klein, R., 1977, *Biochem. Soc. Tr.*, v. 5 (1), 292-293
Plasmodium falciparum, possible mechanism for protection against malaria by sickle-cell trait, involves increased buffering by haemoglobin of fatty acids produced within erythrocyte by parasite, may prevent or retard release of merozoites and associated intravascular haemolysis
- Blood**
Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (3), 280-287
Schistosoma mattheei, Friesian calves, clinical pathological changes after primary infection, two different planes of nutrition
- Blood**
Leal Medina, L. J., 1974, *Rev. Med. Vet. y Parasitol.*, Maracay, v. 25 (1-8), 1973-1974, 15-31
Trypanosoma lewisi, rats with and without cortisone, changes in ultrastructure of monocytes during infection; infection does not produce active macrophages or forms transitional between monocytes and macrophages
- Blood**
Le Bars, H.; and Banting, A. de L., 1976, *Pathophysiol. Parasit. Infect.*, 75-82
Fasciola hepatica, sheep, rabbits, pathophysiology (serum proteins, enzymes, urea, lipids), concluded that rabbit cannot be used as model for pathophysiological studies
- Blood**
Liaudet, J.; and Schandelong, A., 1975, *Nouv. Presse Med.*, v. 4 (16), 1208 [Letter]
Plasmodium falciparum in humans, physiopathology of hemolysis associated with pernicious parasitic infection
- Blood**
McHardy, N., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 301-306
Babesia rodhaini, mice, stimulation of erythropoiesis can have beneficial effect
- Blood**
Maede, Y., 1975, *Japan. J. Vet. Sc.*, Tokyo, v. 37 (5), 269-272
Haemobartonella felis, cats, erythrocytes labeled with ⁵¹Cr, reduced lifespan in infected cats measured by radioactivity
- Blood**
Mahrt, J. L.; and Fayer, R., 1975, *J. Parasitol.*, v. 61 (5), 967-969
Sarcocystis fusiformis, calves (exper.), acute phase of infection, hematologic and serum enzyme changes: oligocythemic anemia, leukocytic shift to the left, elevation of serum SGOT, LDH, and CPK levels
- Blood**
Makoova, Z.; and Jurasek, V., 1975, *J. Protozool.*, v. 22 (3), 66A-67A [Abstract]
Eimeria tenella, chickens (exper.), blood picture
- Blood**
Malherbe, W. D.; et al., 1976, *J. South African Vet. Med. Ass.*, v. 47 (1), 29-33
Babesia canis, dogs, acid-base values for blood of poor-prognosis cases, supportive treatment with sodium bicarbonate reduced acidosis: Onderstepoort
- Blood**
Mandhare, K. S.; Dimopoulos, G. T.; and Hart, L. T., 1973, *Avian Dis.*, v. 17 (3), 617-622
Plasmodium lophurae-infected ducks, in vitro incorporation of sodium acetate into fatty acids of lipid classes of blood plasma and erythrocytes
- Blood**
Manwell, R. D.; and Allen, C. S., 1976, *J. Parasitol.*, v. 62 (1), 110
Plasmodium pinottii, internal hemorrhages as possible important factor in death of infected Columba livia and Streptopelia risoria despite reduced blood clotting time in pigeons
- Blood**
Mason, S. J.; et al., 1977, *Brit. J. Haematol.*, v. 36 (3), 327-335
Plasmodium knowlesi, evaluation of role of Duffy blood group negative erythrocytes in host resistance to invasion by P. knowlesi merozoites
- Blood**
Maxie, M. G.; Losos, G. J.; and Tabel, H., 1976, *Pathophysiol. Parasit. Infect.*, 183-198
Trypanosoma congolense, T. vivax, cattle, development of macrocytic normochromic anemia, leukopenia, and persistent thrombocytopenia, significant differences in response of cattle to the two species
- Blood**
Migasena, P.; and Maeraith, B. G., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 559 [Demonstration]
Plasmodium knowlesi in Macaca mulatta, barriers to movement of albumin from plasma to cerebrospinal fluid and from spinal fluid to plasma resulting from infection

- Blood**
Mikhail, M. M.; and Mansour, M. M., 1976, Clin. Chim. Acta, v. 71 (2), 207-214
Schistosoma mansoni and/or S. haematobium, patients with simple schistosomiasis vs. those with schistosomal polyposis all of whom showed signs of malnutrition, serum carnitine levels (and other haematological values) and liver function tests before and after nutritional repletion and ambilhar treatment, usefulness of serum carnitine as index of protein malnutrition
- Blood**
Milet, R. G.; Apt, W.; and Gallegos, D., 1976, Lancet, London (7972), v. 1, 1305-1306 [Letter]
Toxoplasma gondii, human acute and chronic infections, chromosome abnormalities in lymphocytes, possibly produced by parasitic infection
- Blood**
Miller, L. H.; et al., 1976, N. England J. Med., v. 295 (6), 302-304
Plasmodium vivax, resistance factor in African and American blacks, Duffy determinants on erythrocyte surface required for invasion of erythrocyte by vivax merozoites (Duffy-blood-group-negative human erythrocytes resistant to invasion)
- Blood**
Miller, L. H.; et al., 1977, J. Exper. Med., v. 146 (1), 277-281
Plasmodium falciparum, P. knowlesi, susceptibility of human erythrocytes lacking various blood group antigens to invasion, differential effect of enzyme treatment of human erythrocytes on invasion, evidence for difference in erythrocyte surface receptors for these two parasites
- Blood**
Musumeci, S.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 500-503
human leishmaniasis, mechanism of associated neutropenia
- Blood**
Musumeci, S.; D'Agata, A.; and Fischer, A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 261 [Letter]
human leishmaniasis, presence of immunoglobulin or complement on red cell surface, possible immune mechanism responsible for shortened red cell survival during active disease
- Blood**
Musumeci, S.; D'Agata, A.; and Panebianco, M. G., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (5), 360-367
human leishmaniasis, fibrinogen and platelet survival in presence of infection
- Blood**
Neame, K. D.; Homewood, C. A.; and Momen, H., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 8 [Demonstration]
Plasmodium berghei, Babesia rodhaini, effect of intraerythrocytic parasites on the permeability of red-cell membrane
- Blood**
Nettles, V. F.; and Prestwood, A. K., 1976, Vet. Path., v. 13 (5), 381-393
Parelaphostrongylus andersoni, Odocoileus virginianus (exper.), gross and microscopic lesions, lungs, muscles, clinical signs, egg production, course of infection
- Blood**
Newport, G. R.; et al., 1977, J. Parasitol., v. 63 (1), 15-24
Trypanosoma brucei gambiense-infected Microtus montanus, free serum amino acids, alteration in molar ratios and diurnal variation, possible role in neuropsychiatric syndromes of African trypanosomiasis
- Blood**
Ohlrogge, R.; and Schlipkoeter, H. W., 1973, Med. Microbiol. and Immunol., v. 158 (4), 267-274
deviations in erythrogram before and after treatment of human malaria infections with resochin, no such changes in hookworm and other worm infections: Liberia; Togo
- Blood**
O'Kelly, J. C.; and Spiers, W. G., 1976, J. Parasitol., v. 62 (2), 312-317
Boophilus microplus, infestation of British vs. zebu calves in early life (nat. and exper.), differences in resistance, changes in blood composition
- Blood**
de Oliveira, D. N. G.; and Costa, J. C. de M., 1977, Exper. Parasitol., v. 43 (1), 244-247
Schistosoma mansoni, mice, cholesteryl ester profiles of plasma and liver, may be useful tool for evaluation of progress and prognosis of infection
- Blood**
Oteng, A. K., 1973, Bull. Epizoot. Dis. Africa, v. 21 (4), 449-459
Uganda strain of Theileria parva, cattle (exper.), symptoms, fever, haematology, parasitaemia, pathology, transmission by blood and Rhipicephalus appendiculatus, no cross-immunity between strains of T. parva
- Blood**
Page, C. R. III; and Newport, G. R., 1977, Comp. Biochem. and Physiol., v. 57 (3B), 243-247
Schistosoma mansoni-infected mice, arginase and ornithine carbamoyltransferase activity in serum and liver
- Blood**
Pandey, K. C.; and Pandey, A. K., 1974, Indian J. Zoot., v. 15 (1), 15-18
Trypanosoma baigulensis, blood pathology, piscine hosts
- Blood**
Pandey, N. N.; and Mishra, S. S., 1977, Indian Vet. J., v. 54 (11), 880-883
Babesia bigemina, indigenous cattle (exper.), haematological changes and blood glucose level: India

Blood

Pasvol, G.; and Weatherall, D. J., 1977, Brit. J. Haematol., v. 36 (3), 445-446 [Abstract]
Plasmodium falciparum, host resistance to infection probably related to genetics and acquired alterations in red blood cells

Blood

Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1977, Nature, London (5633), v. 270, 171-173
Plasmodium falciparum in vitro, preferential invasion of young red cells but no difference in rate of development in red cells of differing ages, foetal haemoglobin (Hb F) has no direct effect on rate of invasion of red cells but does cause retardation of parasite growth and development and may therefore offer some degree of protection, this may be possible mechanism for maintenance of β thalassaemia polymorphism since there is a retardation of rate of decline of Hb F production in infants heterozygous for β thalassaemia

Blood

Preston, J. M.; Dargie, J. D.; and MacLean, J. M., 1973, J. Comp. Path., v. 83 (3), 401-415
Schistosoma mattheei, sheep (exper.), clinical, haematological, biochemical, and gross pathological features

Blood

Preston, J. M.; Dargie, J. D.; and MacLean, J. M., 1973, J. Comp. Path., v. 83 (3), 417-428
Schistosoma mattheei, sheep (exper.), sequential changes in plasma, circulating red cell and blood volumes following infection, serum osmolarity and sodium concentrations, water metabolism, urine composition and solute excretion, significance of findings in relation to pathogenesis

Blood

Purnell, R. E.; et al., 1977, Vet. Rec., v. 100 (1), 4-6
Babesia divergens, splenectomized calves (exper.), mixed infection with *Ehrlichia phagocytophila* resulted in less marked changes in haematology, apparent suppression of *Babesia* by *Ehrlichia*

Blood

Purtilo, D. T.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 229-232
 parasitized children with protein-calorie malnutrition, complete blood count, serum immunoglobulin concentration, significant relationship between intensity of parasitism and Ig levels: Brazil

Blood

Rama, S.; Murtuza, M.; and Singh, C. D. N., 1976, Indian Vet. J., v. 53 (11), 895-896
Eimeria parva, *E. ninakohlyakimovae*, sheep (exper.), serum levels of calcium, magnesium and blood inorganic phosphorus, no significant changes after infection

Blood

Roberts, C. J., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 11 [Demonstration]
Trypanosoma congolense, *T. vivax*, cattle, sheep, serum lipid levels, significance of increase in plasma volume in trypanosome infections

Blood

Roberts, C. J., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 279-280 [Abstract]
Trypanosoma vivax, *T. congolense*, ruminants, serum lipid levels

Blood

Romestand, B.; and Trilles, J. P., 1976, Ztschr. Parasitenk., v. 50 (1), 87-92
Meinertia oestroides, anticlotting factor in cephalothoracic latero-oesophageal glands, action and chemical nature studied, antithrombinic factor similar to heparin; enzymatic activities of latero-oesophageal glands and hepatopancreas

Blood

Saror, D. I., 1976, Vet. Rec., v. 98 (10), 196
Trypanosoma vivax, *Trypanosoma congolense*, plasma copper levels determined in exper. infected cattle, neither iron nor copper deficiencies are significant in the pathogenesis of bovine trypanosomiasis

Blood

Satwik, A.; Sarin, G. S.; and Misra, R. C., 1977, J. Trop. Med. and Hyg., v. 80 (2), 40-42
Entamoeba histolytica, human, increased serum seromucoicid levels in active colonic or hepatic disease, normal levels in asymptomatic cyst passers

Blood

Schelp, F. P.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (3), 319-322
 human *falciparum* malaria, effect of parasitism untreated for 2-4 days or 5-10 days on the host serum protein pattern, hematocrit levels, SGOT activity, and blood creatinine; measurement of these parameters may give evidence of duration and severity of infection

Blood

Schiliro, G.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 439-440
 human visceral leishmaniasis, no impaired function of neutrophils in infection as shown by results of bactericidal activity and the nitroblue-tetrazolium tests

Blood

Semka, Z.; and Rogowska, W., 1976, Med. Wet., v. 32 (9), 523-524
Eperythrozoon ovis, imported sheep, blood values, anemia: Poland

Blood

Shimada, Y.; et al., 1976, Nippon Zyuisi-Kai Zassi (J. Japan Vet. Med. Ass.), v. 29 (6), 319-324
Fasciola hepatica, calves (exper.), haematological and liver function tests (bromsulphalein test)

Blood

Silvestri G., R.; Himes, J. A.; and Edds, G. T., 1975, Am. J. Vet. Research, v. 36 (3), 283-287
 sheep (adult Florida Native wethers), effect of oral administration of coumaphos alone or with trichlorfon on erythrocyte acetylcholinesterase and other blood constituents

Blood

Silvestri G., R.; Himes, J. A.; and Edds, G. T., 1975, *Am. J. Vet. Research*, v. 36 (3), 289-292

sheep (ewes and wethers), interaction of coumaphos with trichlorfon, bishydroxycoumarin (an anticoagulant), or phenobarbital sodium (as possible modifier of toxicity), erythrocyte acetylcholinesterase activity and other blood values

Blood

Singh, C. V.; Joshi, H. C.; and Shah, H. L., 1976, *Pantnagar J. Research*, v. 1 (1), 63-66
Eimeria spp., White Leghorn chicks, changes in blood biochemistry, possible aid in diagnosis

Blood

Smirnova, L. I., 1970, *Parazitologiya*, Leningrad, v. 4 (3), 296-297

Trypanosoma lotae sp. n., changes in host blood picture (*Lota lota*)

Blood

Srichaikul, T.; Siriasawakul, T.; and Poshya-chinda, M., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 244-246

Plasmodium falciparum in humans, defect in hemoglobin synthesis during infection, effect on normoblastic development in vitro, possible role of complement in depression of erythropoiesis

Blood

Sroczyński, J., 1977, *Polski Tygod. Lekar.*, v. 32 (16), 589-591

Necator americanus, [*Wuchereria*] *bancrofti*, *Schistosoma mansoni*, studies on hospitalized Africans to assess variations in blood picture during infections showed anemia in hookworm to be mainly iron deficiency while schistosomiasis caused protein deficiency, eosinophilia of peripheral origin rather than correlated with changes in bone marrow

Blood

Stanislawski, E.; Renwranz, L.; and Becker, W., 1976, *J. Invert. Path.*, v. 28 (3), 301-308

Biomphalaria glabrata, soluble blood group reactive substances in hemolymph, possible role in relationship with *Schistosoma mansoni*

Blood

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Blood

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Blood

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Blood

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Blood

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Toxoplasma gondii, mice and rats (exper.), blood changes; rats (exper.), antibody titers by dye test and indirect immunofluorescence, erythrocytes showed positive Coombs' reaction suggesting presence of auto-immune acquired hemolytic process

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Blood

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Blood

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Trypanosoma congolense, hemolytic activity is due to presence of free fatty acids generated by action of phospholipase A on endogenous phosphatidyl choline, some lyssolecithin also contributes to lytic activity, *T. lewisi* is devoid of phospholipase A and does not generate free fatty acids and is therefore non-hemolytic

Blood

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Toxocara canis in *Macaca* spp., visceral larva migrans, clinical, hematological, biochemical, and gross pathological observations, occurrence of severe neurological disorders

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Blood

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Blood

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Blood

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Blood

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Blood

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Blood

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Blood

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Amblyomma maculatum, effects of high and low tick infestations on blood composition and weights of steers fed a standardized diet; decreased numbers of ticks on cattle over time, possibly due to acquired resistance

Blood

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Blood

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Blood

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Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Blood picture. See Blood.

Blood transfusion. See Blood; Disease transmission. Blood.

Body location. See Localization.

Body wall. See Parasite surfaces.

Bones. [See also Musculoskeletal system]

Bones

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Bones

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cysticercosis affecting brain, spinal cord and muscles diagnosed in 1953 in soldier who served in India before World War II, twenty years later found to have severe damage to spine, bones, joints and muscles: Great Britain

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- Borneo.** See Indonesia, Borneo.
- Botswana**
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- Brain.** [See also Nervous system, Host]
- Brain**
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- Brain**
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- Brain**
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Brain

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Hypoderma bovis, horse (brain), intracranial migration of larva, pathology: Ravalli County, western Montana (originally from American Falls, Idaho)

Brain

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Brain

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Cysticercus cellulosae, prevalence, dogs (subarachnoid spaces, cerebral cortex, white matter, ventricles of brain) with neurologic disorders; no basal granulomatous inflammation seen: Mexico City

Brain

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Brain

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Brain

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Brain

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Brain

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Toxoplasma gondii, isolation from dogs with severe pneumoencephalitis, case histories, severity possibly related to distemper vaccination or winter climate

Brain

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action of potassium antimonyl tartrate on brain content of γ -aminobutyric acid and acetylcholine in Schistosoma mansoni-infected mice, possible increased toxic reactions in presence of epilepsy

Brain

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Theileria annulata, crossbred calves (exper.), lesions, histopathological changes of cerebral tissues

Brain

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human cerebral cysticercosis, surgical removal of cyst from subarachnoid space, clinical case review: Tokyo, Japan

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Brain

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Naegleria fowleri, mechanism of pathogenesis in mouse brain and in monkey kidney cell cultures, light and electron microscopy, observations clearly show that amoebae invade and destroy brain tissue by active phagocytosis

Brain

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Brain

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human cerebral cysticercosis and echinococcosis, skin testing as valuable adjunct in diagnosis, antigens used were acid soluble protein fractions of *Taenia solium* proglottids, *T. solium* cysts, and *Echinococcus granulosus* protoscolices

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survey of incidence, elementary school students: urban zone of Curitiba (*Trichocephalus trichiurus*; *Ascaris lumbricoides*; *Enterobius vermicularis*; *Necator americanus*; *Ancylostoma duodenale*; *Strongyloides stercoralis*; *Hymenolepis nana*; *Taenia saginata*; *T. solium*; *Endolimax nana*; *Entamoeba coli*; *Giardia lamblia*; *Entamoeba histolytica*; *Iodamoeba buetschlii*)

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Brazil

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Brazil

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Brazil

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Brazil

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Breeds

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Breeds

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Breeds

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Breeds

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Eimeria tenella, resistance of native, Van-tress broiler and white leghorn chicks compared

Breeds

Nadakal, A. M.; et al., 1975, *Riv. Parassitol.*, Roma, v. 36 (1), 41-46
Raillietina tetragona, four breeds of domestic chickens, calcium deficient diets, significant depression of weight gains, breed differences in calcium content of worms and total leucocyte values of host birds

Breeds

O'Kelly, J. C.; and Spiers, W. G., 1976, *J. Parasitol.*, v. 62 (2), 312-317
Boophilus microplus, infestation of British vs. zebu calves in early life (nat. and exper.), differences in resistance, changes in blood composition

Breeds

Pal, M.; Verma, J. D.; and Dahiya, S. M., 1976, *Indian J. Animal Research*, v. 10 (2), 93-95
Theileria, cattle, higher incidence in young calves of exotic breed (Holstein Friesian) than adults: Satbari, Delhi

Breeds

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 trypanosome-resistant cattle, production of animals of known origin and history for research into the nature of their trypanosome resistance, comparison of the breeding and growth performance of N'dama, Muturu, and Zebu cattle: northern Nigeria

Breeds

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Trypanosoma vivax, *T. congolense*, *T. brucei*, N'dama, Muturu, and Zebu cattle (exper.), comparison of host resistance, pathology; N'dama cattle demonstrated more resistance than other breeds

Breeds

Sakurai, Y.; et al., 1976, *Nippon Zyuishi-Kai Zassi (J. Japan Vet. Med. Ass.)*, v. 29 (6), 316-319
Toxoplasma gondii, survey on hemagglutination antibody in cats, breed or sex not significant in rate of positive reaction; high positive rate in cats from vicinity of piggery or slaughterhouse: Tohoku district

Breeds

Strother, G. R.; Burns, E. C.; and Smart, L. I., 1974, *J. Med. Entom.*, v. 11 (5), 559-563
Amblyomma americanum, purebred Brahman cattle and Brahman x Hereford crossbreds considerably more resistant than purebred Herefords as measured by average yield and weight of replete female ticks and egg hatchability

Breeds

Utterback, W. W.; et al., 1973, *Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973)*, 3-11
Anaplasma marginale, cattle, prevalence with respect to breed, sex, age, management practices, and ecologic factors: Northern California

Breeds

Weilgama, D. J.; Jayasekara, M. U.; and Hussain, M., 1975, *Ceylon Vet. J.*, v. 23 (3-4), 49-53
Babesia bigemina, *B. argentina*, *Anaplasma centrale*, *A. marginale*, three breeds of cattle (Ayrshire, Friesian and Shorthorn), haematological changes including parasitaemia and temperature reactions following pre-munition with blood from infected cattle: Sri Lanka, imported from New Zealand

Breeds

van Wyk, J. A.; van Rensburg, L. J.; and Heitmann, L. P., 1976, *Onderstepoort J. Vet. Research*, v. 43 (2), 43-54
Schistosoma mattheei, Merino and Dorper sheep (exper.), influence of host age and breed on infestation (host susceptibility, cercarial penetration and development to adults, distribution of worms in host, worm sex ratio, egg excretion); variation in cercarial infectivity

British Honduras

- Varma, M. G. R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 92-102
Ixodidae, survey with emphasis on ecology:
British Honduras

Bronchitis

- Braca, G.; and Arispici, M., 1974, Atti Soc. Ital. Sc. Vet., v. 28, 708-710
Dictyocaulus viviparus, pathology of parasitic bronchitis in cattle, possible relationships to non-parasitic respiratory infections

Bronchitis

- Darke, P. G. G., 1976, Vet. Rec., v. 99 (15), 293-294
Filaroides osleri-infected dogs, tracheo-bronchitis, levamisole, good results

Bronchitis

- Michel, J. F., 1976, Advances Parasitol., v. 14, 355-397
nematode infections in grazing animals, epidemiology and control, extensive review: free-living stages (bionomics, transport); parasitic stages (population regulation, immunity, host differences, arrested development, post-parturient rise); parasitic gastro-enteritis in sheep and cattle; parasitic bronchitis in cattle

Bronchitis

- Simon, K., 1972, Med. Welt, v. 23 (44), 1601-1602
Ascaris lumbricoides, therapy of bronchitis in children resulting from Ascaris infections: Germany

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human malaria in southeast Asia, scientific group meeting with discussion on: epidemiology, clinical features, pathophysiology, genetic factors, immunology, diagnosis, chemotherapy, control measures

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ecological analysis of helminth fauna of small mammals in different biotopes: Bulgaria; Czechoslovakia

Bulgaria

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helminth fauna of domestic ducks in Bulgaria (Echinoparyphium aconiatum; Sphaeridiotrema globulus; Prosthogonimus ovatus; Philocephalanthus sp.; Notocotylus ephemera; Cloacotaenia megalops; Dicranotaenia coronula; Diorchis elisae; D. spinata; D. stefanskii; Diploposthe laevis; Drepanidotaenia lanceolata; Fimbriaria fasciolaris; Microsomacanthus abortiva; M. compressa; M. fausti; M. paracompressa; M. paramicrosoma; M. parvula; Sobolevicanthus gracilis; Tschertkovilepis krabbei; T. setigera; Unciunia ciliata; Polymorphus magnus; Filicollis anatis; Capillaria bursata; C. caudinflata; Thominx anatis; T. contorta; Hystrichis tricolor; Amidostomum acutum; A. anseris; Cyathostoma bronchialis; Syngamus trachea; Trichostrongylus tenuis; Epomidiostomum anatinum; Ascaridia galli; Porrocaecum crassum; Ganguleterakis dispar; Heterakis gallinarum; Echinuria uncinata; Streptocara crassicauda; Tetrameres fissispina; Gongylonema sp.; Physocephalus sexualatus; Capillaria anseris)

Calcification

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 calcified filaria of *Dracunculus medinensis* localized in boney areas and joints, differential diagnosis from osteo-arthritis, humans

Calcification

Brochery, J. L.; et al., 1976, *Nouv. Presse Med.*, v. 5 (28), 1755 [Letter]
 human porocephaliasis demonstrated by abdominal x-ray as multiple calcified nymphs located in the mid-abdominal area: France (native of Senegal)

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Calcification

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 extensive clinical review of human cerebral cysticercosis, diagnosis by neurologic symptoms or calcified areas in muscle, statistics of 58 recently recorded cases on Reunion Island

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Kuntz, R. E.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 494-502
Schistosoma haematobium in *Hylobates lar* (exper.), resulting bladder calcifications and papillary tumors of bladder and ureters similar to human infection, possible laboratory model

Calcification

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 elderly man with intrabiliary rupture of calcified echinococcal cyst presenting as acute cholelithiasis, case report and technique of surgical management: Texas

Calcification

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 selective coeliac arteriography in diagnosis of human echinococcal calcified hepatic cysts and pneumocysts

Calcification

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 human ascariasis in man diagnosed by x-ray discovery of calcified *Ascaris* in peritoneum: France

Calcification

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 study of degradation of calcific *Schistosoma haematobium* eggs in mouse tissue, typical granulomatous formation during decalcification, apparent immunologic inertness of egg possibly linked to local tissue calcium balance

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 human schistosomiasis, bladder calcifications in the course of bladder infections, radiologic aspects and diagnostic features

Calcification

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 aortic calcifications in cattle resulting from *Onchocerca armillata* infection: West Sudan

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Cambodia

Schneider, C. R., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 155-166
 Mekong schistosomiasis, current status of human infection, principal focus apparently ethnic Vietnamese fishermen who inhabit raft houses on the Mekong River at Kratie, Cambodia

Cameroun

Pampiglione, S.; and Ricciardi, M. L., 1975, *Riv. Parassitol.*, Roma, v. 36 (2-3), 89-108
 endo- and ectoparasitic survey of 6 camps of Pygmies in the rain forest areas of South Cameroun (*Plasmodium falciparum*, *P. malariae*, *P. ovale*, *Dipetalonema perstans*; *Loa loa*; *Entamoeba coli*; *E. histolytica*; *Endolimax nana*; *Giardia intestinalis*; *Iodamoeba buetschlii*; *Trichomonas intestinalis*; *Chilomastix mesnili*; *Trichuris trichiura*; *Ascaris lumbricoides*; hookworms -- probably *Necator americanus* only; *Strongyloides fuelleborni*; *S. stercoralis*; *Schistosoma mansoni*; *Paragonimus* sp. eggs; *Capillaria* sp. eggs; scabies; chiggers; *Balantidium coli*)

Canada

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Anaplasma marginale, comparison of 2 complement fixation test methods (U.S. Dept. Agriculture vs. Canadian Animal Dis. Research Inst.), survey of cattle population of Southern Alberta in 1966 revealed no active infection, control of first Canadian outbreak in Manitoba in 1968 by serological identification and slaughter, surveillance exercised since 1970: Canada

Canada

Tizard, I. R.; Fish, N. A.; and Quinn, J. P., 1976, *J. Hyg.*, Cambridge, v. 77 (1), 11-21
 extensive survey of human serum for presence of antibodies to *Toxoplasma gondii* and observations on probable epidemiology: Canada

Canada, Ontario

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survey of human parasitism in an Ontario mental hospital, comparison of statistics of 1970 and 1976, attempted assessment of infection transmission among patients and staff (Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Dientamoeba fragilis; Giardia lamblia; Chilomastix mesnili; Trichomonas hominis; Enteroomonas hominis; Balantidium coli; Trichuris trichiura; Strongyloides stercoralis; Enterobius vermicularis; Hymenolepis nana)

Canada, Quebec

Ghadirian, E.; et al., 1976, *Canad. J. Pub. Health*, v. 67 (6), 495-498

human toxocarasis, prevalence survey of Toxocara spp. and other helminth ova in dogs and soil from city parks: Montreal (Toxocara canis; T. leonina; hookworm; Trichuris; trematodes)

Canada, Saskatchewan

Anvik, J. O.; Hague, A. E.; and Rahaman, A., 1974, *Canad. Vet. J.*, v. 15 (8), 219-223

survey of intestinal parasites of dogs in 5 Saskatchewan cities (Isospora sp.; Metorchis conjunctus; Diphylobothrium latum; Alaria sp.; Toxascaris leonina; Toxocara canis; Taenia sp.; Uncinaria sp.; Ancylostoma sp.)

Cancer. [See also Leukemia]

Cancer

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Trypanosoma brucei gambiense-infected Microtus montanus, increased susceptibility to Ehrlich's tumor growth, implications of trypanosome-induced immunosuppression toward susceptibility to neoplastic growth

Cancer

Attah, E. B.; and Nkposong, E. O., 1976, *Trop. and Geogr. Med.*, v. 28 (4), 268-272

Schistosoma haematobium in humans, critical appraisal concludes there is no relationship between schistosomiasis and carcinoma of the bladder

Cancer

Bolio Cicero, A.; et al., 1969, *Prensa Med. Mexicana*, v. 34 (11-12), 421-423

subcutaneous supraclavicular hydatid cyst in elderly man with associated malignant infiltrate of the vertebrae, surgical case report

Cancer

Bomford, R.; and Wedderburn, N., 1973, *Nature* (5398), v. 242, 471-473

Plasmodium berghei yoelii infection potentiates induction of lymphomas in mice by Moloney leukaemia virus, effect accompanied by reduction in detectable levels of circulating neutralizing antibody to the virus and in particular by absence of IgG neutralizing antibody

Cancer

Bulay, O.; et al., 1977, *J. National Cancer Inst.*, v. 59 (6), 1625-1630

Schistosoma mansoni, mice and hamsters (exper.), niridazole, carcinogenicity in infected and noninfected animals, results indicated that schistosome infection had no apparent influence on tumor incidence

Cancer

Chainuvati, T.; et al., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (3), 482-486

Opisthorchis viverrini, humans, case reports of obstructing carcinoma of the cystic duct in persons with opisthorchiasis, possible associations: Bangkok, Thailand

Cancer

Cheever, A. W.; et al., 1976, *Am. J. Path.* (412), v. 84 (3), 673-676

Schistosoma haematobium in capuchin monkeys (Cebus apella) (exper.), infection resulting in carcinoma of the urinary bladder, possible model for human infections

Cancer

Chernik, N. L.; Armstrong, D.; and Posner, J. B., 1973, *Medicine, Baltimore*, v. 52 (6), 563-581

parasitic central nervous system infections (cysticercosis, Taenia solium, Toxoplasma gondii) in persons suffering from carcinogenic lymphomas

Cancer

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Clonorchis sinensis in humans, 92% association (survey of 50 autopsies) between clonorchiasis and presence of mucin-producing cholangiocarcinoma, also association between degree of mucin secretion and presence and severity of parasite infection, clinical report: Hong Kong

Cancer

DeVita, V. T., jr.; et al., 1976, *National Cancer Inst. Monograph* (43), 41-47

Pneumocystis carinii pneumonia in patients with cancer, differential diagnosis, clinical aspects, pentamidine isethionate

Cancer

Dominguez, A.; and Giron, J. J., 1976, *Acta Cytol.*, v. 20 (3), 269-271

Toxoplasma [gondii] cysts in human vaginal smears, need for accurate differential diagnosis from cancer, possible source of congenital toxoplasmosis and/or abortions as well as individual reinfection

Cancer

Dutt, A. K.; Beasley, D.; and Sandosham, A. A., 1969, *Med. J. Malaya*, v. 24 (2), 158-160

case report of woman with eosinophilic granuloma of pancreas caused by Ascaris lumbricoides eggs, symptoms suggestive of cancer: Malaysia

Cancer

Elbihari, S.; and Hussein, M. F., 1973, *J. Wildlife Dis.*, v. 9 (2), 171-173
Ophidascaris filaria, *Python sebae* (stomach), associated granulomatous pre-neoplastic gastric lesions: Sudan

Cancer

Fine, J., 1969, *Med. J. Zambia*, v. 3 (2), 27-35
 autopsy and surgical findings of pathology resulting from human schistosomiasis, possible relationships with bladder cancer: Zambia

Cancer

Frenkel, J. K.; and Reddy, J. K., 1977, *J. Reticuloendothel. Soc.*, v. 21 (1), 61-68
 chemical induction of liver neoplasms is delayed but not prevented in rats chronically infected with *Toxoplasma gondii* or *Besnoitia jellisoni*, possible role of activated macrophages in mediating this protection

Cancer

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 possible correlations of estrogen-containing contraceptive pills in the presence of schistosomal hepatic fibrosis with intramammary duct hyperplasia and cancer, exper. mice

Cancer

Gaspa, L.; and Eusebi, V., 1973, *Pathologica* (943-944), v. 65, 235-239
 echinococcal cyst of breast in elderly woman associated with carcinoma of breast, case report: Italy

Cancer

Gelfand, M., 1969, *Med. J. Zambia*, v. 3 (2), 14-25
 diagnostic signs of human schistosomal disease with discussions on associated urinary tract pathology and possible relationships with hypertension and bladder cancer

Cancer

Gualandri, V.; and Galeazzi, L., 1971, *Minerva Ginec.*, v. 23 (3), 148-150
 human vaginal trichomoniasis, statistical survey of occurrence in conjunction with genital neoplasms

Cancer

Harzmann, R.; and Chiari, R., 1974, *Med. Klin., Berlin*, v. 69 (40), 1614-1619
Toxoplasma gondii, differential diagnosis, multiple histologic exams and retroperitoneal lymphography recommended, case report of human toxoplasmosis and simultaneous reticulosarcoma: Fulda, Germany

Cancer

Hernandez-Perez, E., 1975, *Med. Cutan. Ibero-Latino-Am.*, v. 3 (1), 47-54
 genital amoebiasis of vulva and/or cervix uteri in association with cancerous lesions, 4 case reports, pathologic findings: El Salvador

Cancer

Hicks, R. M.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 288 [Demonstration]
Schistosoma haematobium, studies in hamsters and baboons (both exper.) for possible correlations between nitrosamines and development of bladder tumors in the presence of schistosomiasis

Cancer

Ibrahim, S. I.; et al., 1976, *Med. J. Cairo Univ.*, v. 44 (2), 187-194
 statistical review of pathologic findings at autopsy of cases of pancreatic schistosomiasis, no etiologic relationship with pancreatic cancer: Egypt

Cancer

Irvin, A. D.; et al., 1975, *Nature* (5511), v. 255, 713-714
Theileria parva-infected lymphoid cells, growth in irradiated athymic mice (extensive infiltration causing malignant neoplastic condition), comparison with bovine lymphosarcoma cells (discrete circumscribed tumors with no evidence of metastasis)

Cancer

Juminer, B., 1971, *Medecine Afrique Noire*, v. 18 (4), 321-329
 possible relationships between cancer and human parasitism

Cancer

Kalter, S. S.; et al., 1974, *Nature* (5474), v. 251, 440
Schistosoma haematobium-induced urinary bladder neoplasm, presence of C-type viral particles, *Cebus* sp.

Cancer

Keller, R.; Ogilvie, B. M.; and Simpson, E., 1971, *Lancet*, London (7701), v. 1, 678-680
Nippostrongylus brasiliensis, rats, mice, effect of infection on tumor growth, results raise possibility that helminths and tumors may share antigens and suggest that helminth infections have non-specific effect on tumor growth

Cancer

Kretic, M.; Ceklic, O.; and Semiz, A., 1972, *Med. Zborn.*, v. 7 (1), 9-13
 case report of human echinococcosis of thyroid, differential diagnosis from malignant tumor possible only after surgery: Yugoslavia

Cancer

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Schistosoma haematobium in *Hylobates* lar (exper.), resulting bladder calcifications and papillary tumors of bladder and ureters similar to human infection, possible laboratory model

Cancer

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 differential diagnosis of human hepatic amoebic abscess from primary hepatic carcinoma

- Cancer
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Entamoeba histolytica of clitoris mimicking a cancerous lesion, diagnosis made only after excision of growth, case report and review of current aspects of genital amoebiasis: Georgia
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Trichinella spiralis, mice, nematode induced potentiation of delayed hypersensitivity, induces stimulation of host anti-neoplastic activity
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Trichinella spiralis, mice, antineoplastic effects of long-term infection on B-16 melanoma, apparently related to potentiation of cellular immune response
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human schistosomiasis, possible role in etiology of primary hepatic cancer in tropical areas
- Cancer
Page, F. T.; and Reeves, D. S., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (2), 256-259
Strongyloides spp., accelerated auto-infection in patient with terminal carcinomatosis, low-grade infection thought to have existed for 26 years before erupting, unusual symptoms with numerous larvae in sputum and feces and no evidence of adult worms even at autopsy, danger of infection spread through larvae-infected sputum: Bristol, United Kingdom
- Cancer
Purtilo, D. T., 1976, Trop. and Geogr. Med., v. 28 (1), 21-27
Clonorchis sinensis in humans, autopsy reviews for possible correlations between parasite infection and hepatic and biliary tract neoplasms: Hong Kong
- Cancer
Singh, N. P.; and Tewari, A. N., 1976, Indian J. Animal Sc., v. 46 (4), 211-214
Spirocerca lupi, pathoanatomical and histopathological study, dogs, oesophagus and aorta, fibrosarcoma in some cases
- Cancer
Smith, J. A.; et al., 1975, Ann. Trop. Med. and Parasitol., v. 69 (4), 503-512
Armillifer armillatus, human, case report of severe disseminated porocephalosis with paraplegia and gangrene and coexisting Hodgkin's disease; review of 60 other cases shows Armillifer infestation as 3rd commonest cause of hepatic granulomata, possible congenital case as well as 1st cutaneous involvement are reported, malignant tumors were associated with 33% of the cases, suggested that pentastomes may be able to cause neoplasia
- Cancer
Spithakis, R., 1970, Marseille Med., v. 107 (11), 949-952
use of Trypanosoma cruzi extracts as adjunct to cobalt therapy for human malignant diseases, alleviation of undesirable side effects of radiation: France
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Tapper, M. L.; and Armstrong, D., 1976, Arch. Int. Med., Chicago, v. 136 (7), 807-810
blood transfusion induced malarial infections in 2 patients with neoplastic disease, case reports, implications for alterations of immunologic status
- Cancer
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Schistosoma mansoni, human, leiomyoma of uterine cervix associated with schistosomal ova and granuloma, case report: Brasil
- Cancer
Wandera, J. G., 1976, Vet. Rec., v. 99 (18), 348-351
Spirocerca lupi, dogs, incidence, pathological variations, oesophageal sarcomas, age of host, site of incidence, 11 year period: Kenya
- Cancer
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Toxoplasma gondii invasion of sarcoma mouse ascites tumor, increased ascites caused decreased infection
- Cannibalism
Farhang-Azad, A., 1977, J. Parasitol., v. 63 (4), 701-706
Capillaria hepatica, egg-releasing mechanisms and transmission ecology among Norway rat populations, cannibalism serves as primary egg-releasing mechanism with secondary role played by predators and normal death and decomposition, minor role of carrion insects and soil invertebrates: Baltimore Zoo
- Cannibalism
Haberkorn, A., 1976, Ztschr. Parasitenk., v. 50 (2), 194-195
Blastocrithidia triatomae, course of infection in Triatoma infestans, transmission by coprophagy and cannibalism
- Carbohydrates. [See also Biochemistry; Metabolism]
- Carbohydrates
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Trypanosoma cruzi, differential agglutination of epimastigotes vs. trypomastigotes by concanavalin A, results suggest differences in membrane structure between blood and culture forms which might be related to different pathogenic properties

Carbohydrates

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Setaria cervi, enzymes of glycolysis and PEP-succinate pathway

Carbohydrates

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Setaria cervi, hexose utilization and glycogen synthesis in vitro

Carbohydrates

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Diclidophora merlangi, chemical composition, element analysis, glycogen, protein, lipid, RNA, DNA, ethanol-extractable carbohydrate

Carbohydrates

- Awadalla, H. N.; El-Fiky, R.; and Helmi, A. M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (5), 410-411 [Letter]
Schistosoma mansoni, mice (exper.), possible cause of disturbance in host carbohydrate metabolism

Carbohydrates

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 energy metabolism in nematodes, extensive review

Carbohydrates

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Dermacentor andersoni, *Ornithodoros moubata*, *O. savignyi*, hemolymph, use of silicic acid chromatograms to detect microamounts of trehalose and other sugars

Carbohydrates

- Beier, T. V.; Siim I. K.; and Hutchison, W. M., 1977, Tsitologii, v. 19 (12), 1369-1373
Toxoplasma gondii, polysaccharides and lipids in intestinal stages from specific-pathogen-free cats

Carbohydrates

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Schistosoma mansoni, epidermis of adult male worms, characterization and isolation of concanavalin A binding sites, appear to be 2 or 3 high molecular weight glycoproteins, discussion of possible immunological significance

Carbohydrates

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Leishmania donovani, simple monophasic medium for axenic culture which favors amastigote to promastigote transformation, promastigote size distribution and glucose consumption during cell cycle; medium also supports high population growth of *L. tarentolae* promastigotes and *Trypanosoma cruzi* (Costa Rica but not Corpus Christi strain) epimastigotes

Carbohydrates

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Leishmania donovani, *L. brasiliensis*, pyruvate kinase, regulatory properties in relation to regulation of glycolysis, comparison with *Crithidia fasciculata*

Carbohydrates

- Berens, R. L.; and Marr, J. J., 1977, J. Protozool., v. 24 (2), 340-344
Leishmania donovani, *L. brasiliensis*, phosphofructokinase probably does not play an important role in glycolysis

Carbohydrates

- Boctor, F. N.; and Kamel, M. Y., 1976, Insect Biochem., v. 6 (3), 233-240
Dermacentor andersoni eggs, 2 lipovitellins, purification, characterization, immunological identity with female hemolymph proteins

Carbohydrates

- Bogoiavlenskii, Iu. K.; and Koroleva, N. A., 1969, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 20, 21-29
Ascaridia galli, *Hystrichis tricolor*, comparison of micromorphology and histochemistry of hypodermal-muscular sac during pre-imaginal development

Carbohydrates

- Bristol, J. R.; and Canaris, A. G., 1977, J. Parasitol., v. 63 (5), 940-941
Brachylaime microti, in vitro oxygen consumption, effects of age, exogenous glucose, and cyanide

Carbohydrates

- Brooker, B. E., 1976, Parasitology, v. 72 (3), 259-267
Crithidia fasciculata, comparison of haptonomads attached to cuticular lining of *Anopheles gambiae* hindgut with those from mosquito foregut and from rosettes in culture, prominent cell coat only in former suggests cell coat formation is in response to appropriate environmental conditions, cytochemical staining indicates presence of carbohydrates

Carbohydrates

- Caceres, O.; and Fernandes, J. F., 1976, Rev. Brasil. Biol., v. 36 (2), 397-410
Trypanosoma cruzi, glucose metabolism, culture under fixed conditions, growth and differentiation

Carbohydrates

- Cappuccinelli, P.; Cagliani, I.; and Cavallo, G., 1975, Experientia, v. 31 (10), 1157-1159
Trichomonas vaginalis, involvement of surface concanavalin A-binding glycoprotein in adhesion to glass

Carbohydrates

- Cappuccinelli, P.; and Maetinetto, P., 1972, Parasitologia, v. 14 (2-3), 251-254
Armillifer armillatus, nymph homogenate, disc electrophoresis fractionation, protein, glycoprotein, lipoprotein, mucopolysaccharide and RNA fractions

- Carbohydrates
Cenedella, R. J.; and Saxe, L. H., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 530-534
attempted evaluation of extent to which DDS inhibits glucose utilization by parasite in *Plasmodium berghei* infected mice, partial reversal of antimalarial activity of drug by induced hyperglycemia in host
- Carbohydrates
Chakraborty, A. K.; Mehta, R. K.; and Datta, I. C., 1976, *Indian J. Exper. Biol.*, v. 14 (5), 585-587
Ascaridia galli, tetramisole, carbohydrate utilization, neuro-transmission, enzymatic activity
- Carbohydrates
Chiang, P. K., 1977, *Comp. Biochem. and Physiol.*, v. 58 (1B), 9-12
Biomphalaria glabrata, glycogen metabolism, implications for host-parasite (*Schistosoma mansoni*) relationship
- Carbohydrates
Clarkson, A. B., jr.; and Brohn, F. H., 1976, *Science* (4261), v. 194, 204-206
Trypanosoma brucei brucei, *T. brucei rhodesiense*, mice, salicyl hydroxamic acid + glycerol block glucose catabolism of the parasite and it is rapidly destroyed but parasitemia recurs after treatment, with modification may be new approach to trypanosome chemotherapy
- Carbohydrates
Codreanu-Balcescu, D., 1976, *J. Protozool.*, v. 23 (4), 7A [Abstract]
Enterocystis, role of Golgi apparatus in elaboration of paraglycogen
- Carbohydrates
Condon, W. J.; and Gordon, R., 1977, *J. Invert. Path.*, v. 29 (1), 56-62
Neomesomeris fluminalis, effects on neuro-endocrine systems and storage of fat body glycogen in larval *Prosimulium mixtum fuscum* and *Simulium venustum*
- Carbohydrates
Coombs, G. H.; and Gutteridge, W. E., 1975, *J. Protozool.*, v. 22 (4), 555-560
Plasmodium vinckei chabaudi rat-adapted strain, in vitro system (based on rocker dilution technic) that supports intraerythrocytic growth from ring to schizont stages, some reinvasion obtained but associated with decrease in parasite numbers, lactate production, glucose utilization, ³H-leucine and ³H-adenosine incorporation
- Carbohydrates
Cornford, E. M.; et al., 1973, *J. Protozool.*, v. 20 (4), 503
Trypanosoma lewisi, in vivo and in vitro effects of hyperglycemic and hypoglycemic agents
- Carbohydrates
Cornford, E. M.; et al., 1975, *Gen. Pharmacol.*, v. 6 (4), 315-323
Trypanosoma lewisi, effects of altered blood glucose levels in vivo (rats), effects of hypoglycemic and hyperglycemic agents on glucose metabolism in vitro
- Carbohydrates
Cosgrove, W. B.; and Hajduk, S. L., 1975, *J. Protozool.*, v. 22 (3), 26A [Abstract]
Trypanosoma equiperdum, inhibition of membrane transport of glucose by 2-deoxy-D-glucose, loss of motility, morphology, and infectivity, unsuccessful attempt to use in controlling established infections
- Carbohydrates
Cowper, S. G., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (4), 415-425
continuous flow apparatus for in vitro maintenance: *Schistosoma mansoni*, *S. haematobium*, survival time, carbohydrate metabolism; *Plasmodium knowlesi*, morphology and carbohydrate metabolism; preliminary attempts to cultivate *Trypanosoma vivax* and *Babesia canis*
- Carbohydrates
Crompton, D. W. T.; and Nesheim, M. C., 1977, *Parasitology*, v. 75 (2), xxi-xxii [Abstract]
Moniliformis dubius, rats, effect of host dietary starch on course of infection
- Carbohydrates
Cross, G. A. M.; and Klein, R. A., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 266-267 [Abstract]
Trypanosoma brucei, utilization of amino acids and glucose during growth in culture, effects on respiration
- Carbohydrates
Czerpak, R., 1970, *Acta Parasitol. Polon.*, v. 17 (20-38), 285-292
Trichinella spiralis larvae, mice given gold-thioglycose and vitamin A, oxygen uptake by diaphragm muscles, influence of host sex and age
- Carbohydrates
Dawidowicz, K.; et al., 1975, *J. Parasitol.*, v. 61 (5), 950-953
Leishmania braziliensis, infective amastigotes and promastigotes and noninfective promastigotes, agglutination by various lectins, results suggest presence of complex carbohydrate groups on surface membrane
- Carbohydrates
Deelder, A. M., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 206 [Abstract]
Schistosoma mansoni, demonstration of circulating protein and polysaccharide antigens and antigen-antibody complexes in heavily infected hamsters (exper.)
- Carbohydrates
Deelder, A. M.; et al., 1976, *Exper. Parasitol.*, v. 40 (2), 189-197
Schistosoma mansoni, demonstration of two circulating antigens (probably both polysaccharides) in infected hamsters, both demonstrated in serum, adult worm extracts, and excretory-secretory products of adult worms, one also demonstrated in urine, 2 additional schistosome-derived antigens found in urine

Carbohydrates

Dendinger, J. E.; and Roberts, L. S., 1977, *Comp. Biochem. and Physiol.*, v. 58 (2B), 215-219

Hymenolepis diminuta, activity of glycogen synthase as a function of development and with crowding

Carbohydrates

Dendinger, J. E.; and Roberts, L. S., 1977, *Comp. Biochem. and Physiol.*, v. 58 (3B), 231-236

Hymenolepis diminuta, glycogen synthase, control of enzyme activity by glucose and glycogen

Carbohydrates

De Souza, W.; and Brasil, R. P., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 1-9

Leishmania braziliensis guyanensis, electron microscopic and cytochemical studies of concanavalin A receptors on cell membranes; agglutination; cell surface polysaccharides, glycoproteins and glycolipids

Carbohydrates

Desser, S. S.; and Weller, I., 1973, *J. Protozool.*, v. 20 (1), 65-73

Haemogregarina sp. from *Rana berlandieri* (imported from Northern Mexico), intra- and extracellular gametocytes studied by light and electron microscopy, locomotion in relation to certain structural features, cytochemistry (proteinaceous and polysaccharide inclusions)

Carbohydrates

Docampo, R.; de Boiso, J. F.; and Stoppani, A. O. M., 1974, *Medicina*, Buenos Aires, v. 34 (5), 525-531

action of ethidium bromide on *Trypanosoma cruzi* metabolism (damage to kinetoplast NDNA; reduced respiration; changes in glycolysis)

Carbohydrates

Dohnalova, M.; and Kulda, J., 1977, *J. Protozool.*, v. 24 (4), 50A [Abstract]

Tritrichomonas foetus, meagre respiration with erythritol as substrate, no stimulatory effect of erythritol on growth in vitro, results indicated that confinement of *T. foetus* to lumen of bovine uterus is not related to presence of erythritol at this site (in contrast to *Brucella abortus*)

Carbohydrates

Dunkley, L. C.; and Mettrick, D. F., 1976, *Canad. J. Zool.*, v. 54 (7), 1073-1078

Hymenolepis diminuta, rat, effect of increasing host dietary carbohydrate uptake on growth of 14-day-old worms, comparison of glucose vs. cornstarch diets

Carbohydrates

Dunkley, L. C.; and Mettrick, D. F., 1977, *Exper. Parasitol.*, v. 41 (1), 213-228

Hymenolepis diminuta, rats, dietary carbohydrate intake, host's intestinal and blood plasma glucose levels, worm migration

Carbohydrates

Dwyer, D. M., 1974, *Science* (4135), v. 184, 471-473

Leishmania donovani promastigotes, agglutination reactions with several lectins, results suggest that complex saccharide moieties are randomly distributed on the surface of this organism

Carbohydrates

Dwyer, D. M., 1975, *J. Cell Sc.*, v. 19 (3), 621-644

Trypanosoma lewisi, bloodstream and culture forms, differential polycation-induced cell agglutination, fine-structure cytochemistry, results indicate complex polysaccharides are present in surface membranes and cell surface coat

Carbohydrates

Dwyer, D. M., 1977, *Exper. Parasitol.*, v. 41 (2), 341-358

Leishmania donovani promastigotes, surface membrane carbohydrates

Carbohydrates

Dwyer, D. M.; and Chang, K. P., 1975, *J. Protozool.*, v. 22 (3), 37A-38A [Abstract]

Leishmania donovani promastigotes, surface membrane terminal saccharides

Carbohydrates

Dwyer, D. M.; and Chang, K.-P., 1976, *Proc. Nat. Acad. Sc., U.S.A.*, v. 73 (3), 852-856

Crithidia oncopelti, bacterial endosymbiote-containing vs. symbiote-free strain, comparison of surface-membrane carbohydrate ligands by lectin-mediated agglutination and lectin-ultrastructure localization

Carbohydrates

Dwyer, D. M.; and D'Alesandro, P. A., 1974, *J. Protozool.*, v. 21 (3), 430 [Abstract]

Trypanosoma duttoni, cell surface polysaccharides

Carbohydrates

Dwyer, D. M.; and D'Alesandro, P. A., 1976, *J. Protozool.*, v. 23 (1), 75-83

Trypanosoma musculi bloodstream forms, extracellular surface coat, fine structure, presence and distribution of carbohydrates in surface coat and pellicular membrane

Carbohydrates

Dwyer, D. M.; and D'Alesandro, P. A., 1976, *J. Protozool.*, v. 23 (2), 262-271

Trypanosoma musculi bloodstream forms, lectin agglutination, fine structure localization of concanavalin A sites, antibody agglutinations (regular presence of surface-bound host serum proteins; induced surface adsorption of serum proteins), fine structural evidence of host serum in surface coat

Carbohydrates

El-On, J.; and Schnur, L. F., 1974, *J. Protozool.*, v. 21 (3), 463-464 [Abstract]

Leishmania donovani, *L. tropica*, excreted antigens, purification and preliminary characterization

- Carbohydrates**
 Evans, D. A.; and Brown, R. C., 1972, *J. Protozool.*, v. 19 (4), 686-690
Trypanosoma brucei culture forms, utilization of glucose and proline
- Carbohydrates**
 Farlow, G. E., 1976, *Internat. J. Parasitol.*, v. 6 (6), 513-516
Babesia rodhaini, *B. argentina*, differences in infectivity when incubated in plasma vs. serum, role of glucose in prolonging viability, relevance of findings to living babesial vaccines in which plasma- and serum-based diluents may be used
- Carbohydrates**
 Fayer, R.; and Thompson, D. E., 1975, *J. Parasitol.*, v. 61 (3), 466-475
Sarcocystis sp., intracellular stages in cell culture, distribution of lipid, carbohydrate, protein, and nucleic acids, correlation with previously observed morphological features
- Carbohydrates**
 Fioravanti, C. F.; and MacInnis, A. J., 1976, *J. Parasitol.*, v. 62 (5), 741-748
Hymenolepis diminuta, in vitro maintenance system (modification of Schiller system), morphological and metabolic criteria as indices of worm's condition in presence and absence of various additives
- Carbohydrates**
 Fung, H. P., 1975, *J. Chinese Soc. Vet. Sc.*, v. 1 (2), 83-86
Trypanosoma evansi-inoculated mice, influence of glucose on number of parasites found
- Carbohydrates**
 Gattaponi, P., 1972, *Parassitologia*, v. 14 (2-3), 311-316
Thelohanella pyriformis, infection of tench, *Tinca tinca*, vegetative stages most commonly on gills, description on gills, acid mucopolysaccharides in polar cyst walls, no appreciable damage, seasonal distribution irregular, limnological data not correlated with variation in localization and dimensions: Lake Trasimeno
- Carbohydrates**
 Goldring, O. L.; Kusel, J. R.; and Smithers, S. R., 1977, *Exper. Parasitol.*, v. 43 (1), 82-93
Schistosoma mansoni, origin in vitro of host-like blood group surface antigens, results show that such antigens are not synthesized by the parasite in glycolipid form and are not acquired from the host as glycoproteins
- Carbohydrates**
 Gottlieb, M., 1977, *J. Immunol.*, v. 119 (2), 465-470
Trypanosoma cruzi, carbohydrate-containing antigen, detection in circulation of infected mice
- Carbohydrates**
 Gress, F. M.; and Lumsden, R. D., 1976, *J. Parasitol.*, v. 62 (6), 927-938
Schistosoma mansoni, intrasporocyst cercariae, tegument, fine structure and cytochemistry
- Carbohydrates**
 Grigonis, G. J., jr.; and Solomon, G. B., 1976, *Exper. Parasitol.*, v. 40 (2), 286-297
Capillaria hepatica, egg shell in situ following freeze-dry fixation of infected mouse liver, fine structure, histochemistry
- Carbohydrates**
 Hanna, R. E. B., 1976, *Exper. Parasitol.*, v. 39 (1), 18-28
Fasciola hepatica, shell-protein and glycogen synthesis by vitelline follicles in tissue slices, light and electron microscope autoradiography
- Carbohydrates**
 Hanna, R. E. B., 1976, *Exper. Parasitol.*, v. 39 (2), 204-213
Fasciola hepatica, incorporation of galactose and glucose into glycogen and glycoprotein of various tissues (parenchyma, tegument, testis, muscle), light and electron microscope autoradiography
- Carbohydrates**
 Harpur, R. P.; and Jackson, D. M., 1976, *Comp. Biochem. and Physiol.*, v. 54 (4B), 455-460
Ascaris suum, isolated intestine, glucose diminished oxygen uptake (Crabtree effect), glucose caused increases in tissue carbohydrate, CO₂ evolution, and acid production, no Pasteur effect demonstrated, glutamine increased oxygen uptake in presence and absence of glucose but did not abolish Crabtree effect
- Carbohydrates**
 Hart, R. J.; Turner, R.; and Wilson, R. G., 1977, *Internat. J. Parasitol.*, v. 7 (2), 129-134
Hymenolepis nana, bunamidine causes decrease in glucose uptake and increase in glucose efflux and stimulation of surface phosphatase activity, suggests that disruption of integument is mode of action by which worm death is caused, ultrastructural studies confirm these biochemical indications of integumental damage
- Carbohydrates**
 Haston, W., 1975, *J. Protozool.*, v. 22 (3), 52A [Abstract]
Trypanosoma brucei, substrate utilization by transforming midgut forms, decreased glucose oxidation, increased proline oxidation, suggests that trypanosomes have adapted their metabolism to utilize the most available substrate in their mammalian vs. insect hosts
- Carbohydrates**
 Henderson, D., 1977, *Parasitology*, v. 75 (3), 277-284
Hymenolepis diminuta, in vitro rate of absorption of glucose/unit dry weight of worm falls with increasing worm age, with increasing worm weight, and with increasing infection density
- Carbohydrates**
 Herbert, W. J.; Mucklow, M. G.; and Lennox, B., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 4 [Demonstration]
Trypanosoma brucei subspp., primary cause of death in acute murine infection characterized by convulsions is hypoglycemia with associated undetermined pathology

Carbohydrates

Hermoso Yanez, R.; and Monteoliva Hernandez, M., 1973, Rev. Iber. Parasitol., v. 33 (2-3), 427-437

Ascaris lumbricoides, perivisceral fluid, glucose and trehalose content apparently independent of maturity of parasite or nutritive state of swine host

Carbohydrates

Hermoso, R.; and Monteoliva, M., 1974, Rev. Iber. Parasitol., v. 34 (3-4), 295-304

Ascaris lumbricoides, content of trehalose, glucose, soluble glycogen and combined glycogen in sexual organs, body walls and perivisceral fluid, values before and after culture in solution without glucose, estimate of endogenous utilization

Carbohydrates

Hermoso, R.; Monteoliva, M.; and Sanchez, M., 1975, Rev. Iber. Parasitol., v. 35 (3-4), 329-337

Ascaris lumbricoides, culture in media with added glucose or hemoglobin, relationship of nutrients to total carbohydrate content of certain tissues; no clear relationship to content of specific sugars (glucose, trehalose, glycogen)

Carbohydrates

Homewood, C. A.; and Atkinson, E. M., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 26-27 [Demonstration]

Plasmodium berghei: carbohydrate metabolism; dependence of chloroquine-induced pigment clumping on composition of culture medium

Carbohydrates

Homewood, C. A.; and Howells, R. E., 1973, J. Protozool., v. 20 (4), 526-527

Plasmodium berghei, cyclical changes in carbohydrate metabolism, gain and loss of enzymes of citric acid cycle follows change of host

Carbohydrates

Homewood, C. A.; Neame, K. D.; and Momen, H., 1975, Ann. Trop. Med. and Parasitol., v. 69 (4), 429-434

Babesia rodhaini-infected mice, red cells show marked increase in permeability as measured by entry of L-glucose

Carbohydrates

Hung, C. H.; et al., 1977, J. Biol. Chem., v. 252 (11), 3995-4001

Ascaris suum, intestinal basement membrane, analysis of polypeptide components, amino acid and carbohydrate composition

Carbohydrates

Imai, J., 1972, Nettai Igaku (Trop. Med.), v. 14 (3), 111-123

Paragonimus westermani, biochemical analysis of antigens, effects of heat, protein and carbohydrate content; reactions to agar-gel diffusion, complement fixation and electrophoresis

Carbohydrates

Itazi, O. K. A.; and Njogu, A. R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 262 [Abstract]

Trypanosoma[a] *brucei*, sugar nucleotides in antigen synthesis

Carbohydrates

Jackson, P. R., 1977, J. Parasitol., v. 63 (1), 8-14

Trypanosoma equiperdum, agglutination studies with 6 plant lectins before and after treatment of parasite surface by certain enzymes and other agents

Carbohydrates

Jackson, P. R.; and Fisher, F. M., jr., 1977, J. Protozool., v. 24 (2), 345-353

Trypanosoma equiperdum, carbohydrate effects on transport and short-term metabolism of amino acids

Carbohydrates

Janovy, J., jr.; et al., 1975, Proc. Oklahoma Acad. Sc., v. 55, 130-135

Herpetomonas megaseliae, cytodifferentiation in culture, changes in population composition (promastigotes, paramastigotes, opisthomastigotes), physiological changes (organisms became increasingly cyanide-sensitive, anaerobic stimulation of glucose uptake was doubled, and anaerobic acid production was halved as makeup of culture population shifted), differentiation was postulated to involve metabolic shift from anaerobic to aerobic metabolism

Carbohydrates

Johnson, J. G.; and Cross, G. A. M., 1977, J. Protozool., v. 24 (4), 587-591

Trypanosoma brucei, carbohydrate composition of variant-specific surface antigen glycoproteins

Carbohydrates

Josephson, S. L.; Weik, R. R.; and John, D. T., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 856-858

Naegleria gruberi, *N. fowleri*, concanavalin A-induced agglutination of *N. gruberi* but not *N. fowleri* indicating differences in polysaccharide structure of cell membranes, possible application to differentiating species and probing membrane properties associated with virulence

Carbohydrates

Khan, R. A., 1975, J. Wildlife Dis., v. 11 (2), 205-209

Trichodina oviducti-infected *Raja radiata* (copulatory sac wall), histopathology, restriction of infection to adult hosts may be correlated with mucopolysaccharide levels: coastal areas adjacent to St. John's, Newfoundland, Canada

Carbohydrates

Koenigk, E.; and Mirtsch, S., 1977, Tropenmed. u. Parasitol., v. 28 (1), 17-22

Plasmodium chabaudi, characterization of membrane preparations from infected and uninfected erythrocytes of mice by specific activities of membrane-associated enzymes and by patterns of proteins and glycoproteins using gel electrophoresis

- Carbohydrates
Koerting, W.; and Barrett, J., 1977, Internat. J. Parasitol., v. 7 (5), 411-417
Schistocephalus solidus plerocercoids, carbohydrate catabolism
- Carbohydrates
Komuniecki, R.; and Roberts, L. S., 1975, J. Parasitol., v. 61 (3), 427-433
Hymenolepis diminuta, roughage and carbohydrate content of host diet for optimal parasite growth and development
- Carbohydrates
Komuniecki, R. W.; and Roberts, L. S., 1977, Comp. Biochem. and Physiol., v. 57 (1B), 45-49
Hymenolepis diminuta, hexokinase, purification and characterization, host rat starvation and refeeding have no effect on soluble hexokinase activity in this helminth
- Carbohydrates
Komuniecki, R.; and Roberts, L. S., 1977, Comp. Biochem. and Physiol., v. 57 (4B), 329-333
Hymenolepis diminuta, galactose can be metabolized to limited extent but cannot substitute for glucose as nutrient source
- Carbohydrates
Komuniecki, R. W.; and Roberts, L. S., 1977, Comp. Biochem. and Physiol., v. 58 (1B), 35-38
Hymenolepis diminuta, enzymes of galactose utilization, factors limiting overall galactose utilization
- Carbohydrates
Krvavica, S.; et al., 1976, Vet. Arhiv, Zagreb, v. 46 (9-10), 215-229
Paramphistomum microbothrium, Neoscaris vitulorum, activity of enzymes taking part in glucose decomposition; anaerobic metabolism; metabolic pathways
- Carbohydrates
Krvavica, S.; et al., 1976, Vet. Arhiv, Zagreb, v. 46 (11-12), 271-287
Metastrongylus apri, activity of enzymes taking part in glucose fermentation; aerobic metabolism; tricarboxylic acid cycle
- Carbohydrates
Kumar, A.; and Rawat, J. S., 1976, Indian J. Animal Sc., v. 45 (3), 1975, 154-156
Eimeria necatrix, E. acervulina, chickens (exper.), effect on serum enzymes, blood glucose and cholesterol
- Carbohydrates
Lawson, J. R., 1977, Parasitology, v. 75 (2), xi-xii [Abstract]
Schistosoma mansoni cercariae, survival in relation to environmental temperature, activity pattern, infectivity, glycogen content
- Carbohydrates
de Lederkremer, R. M.; et al., 1976, Biochim. et Biophys. Acta, v. 444 (1), 85-96
Trypanosoma cruzi epimastigotes, lipopeptidophosphoglycan, isolation, purification, compositional analysis
- Carbohydrates
de Lederkremer, R. M.; et al., 1977, European J. Biochem., v. 74 (2), 263-267
Trypanosoma cruzi, fatty acid composition of an isolated lipopeptidophosphoglycan
- Carbohydrates
Lehane, M. J.; and Laurence, B. R., 1977, Parasitology, v. 74 (1), 87-92
Brugia pahangi, susceptible and refractory mosquitoes, flight muscle ultrastructure, changes during parasite melanization in 'resistant' Anopheles labranchiae atroparvus, comparison with lack of change in 'susceptible' Aedes togoi and 'resistant' Aedes aegypti, decrease of glycogen in all 3 spp.
- Carbohydrates
Lom, J.; and Nohynkova, E., 1977, J. Protozool., v. 24 (4), 52A [Abstract]
Trypanoplasma borelli bloodstream phase, surface coat, presence of carbohydrates
- Carbohydrates
Loseva, N. G., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 95-97
Alfortia edentatus, Delafondia vulgaris, histochemistry of intestine, low glycogen content related to blood feeding; quantity and distribution of nucleic acids
- Carbohydrates
McManus, D. P., 1977, Parasitology, v. 75 (2), xxi [Abstract]
Echinococcus granulosus horse and sheep strains, E. multilocularis, differences in biochemical composition and carbohydrate metabolism
- Carbohydrates
Madel, G.; and Scholtyssek, E., 1976, Ztschr. Parasitenk., v. 49 (1), 81-92
Sphaerularia bombi, evaginated tubular reproductive tract, light and electron microscopy of tube cells, cytochemistry of fat body cells of parasite
- Carbohydrates
Manohar, L.; and Rao, P. V., 1977, Indian J. Exper. Biol., v. 15 (4), 264-267
Prosthogonimus sp.-infected Lymnaea luteola, gluconeogenic precursor levels and related enzyme activity profiles, alterations in host metabolism aimed at meeting demands of parasite
- Carbohydrates
Manohar, L.; and Rao, P. V., 1977, Indian J. Exper. Biol., v. 15 (4), 268-270
[Prosthogonimus sp.]-infected Lymnaea luteola vs. uninfected snails, in vitro gluconeogenesis in isolated pedal muscle slices
- Carbohydrates
Marr, J. J.; Birenbaum, M. E.; and Ladenson, J. H., 1977, Exper. Parasitol., v. 42 (2), 322-330
Crithidia fasciculata, aerobic fermentation, in vivo studies, appearance kinetics of intermediates, regulation

Carbohydrates

- Marr, J. L., 1976, Proc. Indiana Acad. Sc., v. 85, 1975, 411-417
 Tritrichomonas suis, in vitro culture in chick chorio-allantoic fluid resulted in lower numbers and smaller individuals than in commercial C.P.L.M. medium; difference perhaps based on different carbohydrate utilization

Carbohydrates

- Martin, E.; et al., 1976, J. Protozool., v. 23 (4), 600-607
 Leishmania, 4 human spp. compared, promastigotes, occurrence and levels of activity of various enzymes of carbohydrate catabolism

Carbohydrates

- Matthews, H. M.; and Daly, J. J., 1975, J. Protozool., v. 22 (1), 139-145
 Trichomonas gallinae, influence of type of growth carbohydrate on subsequent ability to utilize glucose, maltose, or galactose

Carbohydrates

- Mead, R. W., 1976, J. Parasitol., v. 62 (2), 328-329
 Hymenolepis diminuta migration in rat intestine, effect of abnormal glucose distribution, posterior movement of cestodes in response to posterior movement of glucose

Carbohydrates

- Mead, R. W., 1976, Tr. Am. Micr. Soc., v. 95 (2), 183-188
 Hymenolepis diminuta, distribution of amylase activity within infected and uninfected rat intestine using starch substrate film method, no difference in relative amylase activity, results indicated that differences in starch digestion between infected and uninfected rats were not due to changes in distribution of intraluminal amylase along the small intestine

Carbohydrates

- Medina, H.; Amaral, D.; and Bacila, M., 1955, Arq. Biol. e Tecn., v. 10, 97-119
 Leishmania brasiliensis, pathways of glucose and acetate oxidation

Carbohydrates

- Meingassner, J. G.; et al., 1977, Ztschr. Parasitenk., v. 51 (3), 219-228
 Toxoplasma gondii cysts from mouse brains, histochemistry of carbohydrate metabolism

Carbohydrates

- Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 48 (1), 35-45
 Dicrocoelium dendriticum miracidia, hatching with formic acid, caproic acid and intestinal juice of Helix pomatia, absence of O₂, presence of bacteria; indirect dependence on pH; permeabilities and osmotic pressure; hypothesis of hatching mechanism: granular gland activation releases enzyme, polysaccharide digested to oligosaccharide, rising osmotic pressure bursts operculum

Carbohydrates

- Molfi, A., 1976, Arq. Biol. e Tecn., v. 19 (1), 9-14
 Eurytrema coelomaticum, histochemistry of polysaccharides, cuticle, subcuticular cells, parenchyma and uterine secretion

Carbohydrates

- Momen, H., 1976, Parasitology, v. 73 (2), xvi [Abstract]
 Plasmodium spp., Babesia spp., Anthemosoma garnhami, carbohydrate metabolism: enzyme activity, glucose catabolism

Carbohydrates

- Momen, H.; Homewood, C. A.; and Neame, K. D., 1975, Ann. Trop. Med. and Parasitol., v. 69 (4), 519-520
 Anthemosoma garnhami-infected mice, red cells show marked increase in permeability as measured by entry of L-glucose

Carbohydrates

- Monteoliva Hernandez, M., 1973, Rev. Iber. Parasitol., v. 33 (4), 599-606
 Ascaris, motility studies in vitro, motility longer with glucose than when fasting; longer at 25° C than at 37° C; younger worms more active than mature ones

Carbohydrates

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 Hymenolepis diminuta, properties of pyruvate kinase and phosphoenol-pyruvate carboxykinase (the two enzymes that determine preferential accumulation of either succinate or lactate as end products of carbohydrate metabolism)

Carbohydrates

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Carbohydrates

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 Leishmania tropica, role of exogenous glucose in growth media, delayed utilization

Carbohydrates

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 Plasmodium berghei, mice, pretreatment with bacterial endotoxin and lipid A (endotoxin-pretreated mice demonstrated increased resistance; lipid A had little effect)

Carbohydrates

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Carbohydrates

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 Trypanosoma brucei subgroup, evidence that 4S (surface) antigens located on outer surface of cell membrane

- Carbohydrates
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- Carbohydrates
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Moniezia expansa, glycogen, physical and chemical properties, molecular structure
- Carbohydrates
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Crithidia fasciculata, regulation of glycolysis, absence of feedback inhibition of phosphofructokinase
- Carbohydrates
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- Carbohydrates
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- Carbohydrates
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Paramphistomum cervi, histochemical localization and distribution of α -glycerophosphate, lactate, glucose-6-phosphate and 6-phosphogluconate dehydrogenases, results suggest existence of both Embden-Meyerhof and pentose-phosphate pathways for carbohydrate metabolism
- Carbohydrates
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Ascaris suum, intestinal basement membrane, characterization of carbohydrate units
- Carbohydrates
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Gregarina blaberae, trophozoite and cyst, analysis of polysaccharides
- Carbohydrates
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Gregarina blaberae, cell surface membrane, carbohydrates
- Carbohydrates
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Gregarina blaberae, proteins and glycoproteins of cortical membranes
- Carbohydrates
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Isospora belli, various stages, contents of glycogen and fats
- Carbohydrates
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Hymenolepis diminuta, effect of unstirred water layers on apparent influx kinetics of glucose, galactose, and alanine uptake by worms incubated in vitro
- Carbohydrates
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- Carbohydrates
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lack of clinical manifestations in Hymenolepis diminuta-caused malnutrition and malabsorption in rats, determination of compensatory mechanisms including enhanced glucose- and bicarbonate-stimulated transport in infected small intestine, low mucosal permeability, and functional compensation by colon
- Carbohydrates
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- Carbohydrates
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Dicrocoelium dendriticum, Fasciola hepatica, histochemical comparison of carbohydrate-rich compounds in bile-duct walls of infected goats
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Dicrocoelium dendriticum and Fasciola hepatica, comparison of histochemical pathology of infected goats showing increase in number of hepatic mast cells and occurrence of globule leucocytes in bile-duct walls
- Carbohydrates
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Moniezia expansa, effects of mebendazole and cambendazole on respiratory metabolism

Carbohydrates

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Clinostomum complanatum, *Euclinostomum heterostomum*, glycogen content, less in adults than in metacercariae; oxygen deficient habitat of metacercariae necessitates frequent glycolysis, adults in heron mouth cavity utilize atmospheric oxygen; starvation of both stages in vitro quickly depletes glycogen, host starvation reduces metacercarial glycogen less but significantly

Carbohydrates

- Reissenweber, N. J.; et al., 1975, Ztschr. Parasitenk., v. 48 (1), 25-33
Echinococcus granulosus, hydatid cysts from human lungs, scolices and brood capsules, histochemistry and histoenzymology, enzymes, lipids, glycogen, RNA, metabolic pathways, various types of cells in brood capsules

Carbohydrates

- Rengaraju, V.; and Das, E. N., 1976, Acta Histochem., v. 57 (2), 263-269
Centrorhynchus falconis, histochemistry

Carbohydrates

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Litomosoides carinii, *Dipetalonema viteae*, and particularly *Brugia pahangi* microfilariae, oxygen requirements, carbohydrate metabolism, effect of levamisole

Carbohydrates

- Richards, A. J.; et al., 1977, Internat. J. Parasitol., v. 7 (2), 153-158
Nippostrongylus brasiliensis, in vitro incubation with prostaglandin E₁, effect on glycolysis, on worm morphology, and on survival in vivo, results support view that prostaglandins play vital role in mechanism of worm expulsion

Carbohydrates

- Ridley, R. K.; Slonka, G. F.; and Leland, S. E., jr., 1977, J. Parasitol., v. 63 (2), 348-356
Cooperia punctata, L₄ and adult stages grown in vitro, utilization of propionic acid, use of propionate by worms would result in depriving ruminant host of some of its necessary glucogenic precursors and could account for specific pathogenic mechanism attendant to heavy infections

Carbohydrates

- Rogers, S. H., 1976, Exper. Parasitol., v. 40 (3), 397-405
Schistosomatium douthitti, adults, carbohydrate metabolism, glycolysis is major mechanism for energy production but at least two aerobic pathways exist

Carbohydrates

- Roseby, F. B., 1977, Austral. J. Agric. Research, v. 28 (4), 713-719
Trichostrongylus colubriformis, sheep, glucose metabolism, rate of glucose synthesis higher in infected sheep compared with controls on same feed intake

Carbohydrates

- Ross, G. W.; and Knight, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 560-567
Entamoeba histolytica, dietary factors affecting pathogenicity in rats, effect of low protein and low protein-high carbohydrate diets, measurements of bacterial flora, pH, and redox potential

Carbohydrates

- Rubin, H.; and Trelease, R. N., 1975, J. Parasitol., v. 61 (4), 577-588
Ascaris suum, developing larvae, correlation of ultrastructural changes in lipid body and glycogen patterns with certain biochemical events occurring during lipid to carbohydrate interconversion, elucidation of specific tissue sites and accompanying organelles associated with this metabolic conversion

Carbohydrates

- Russi, S.; Siracusano, A.; and Vicari, G., 1974, J. Immunol., v. 112 (3), 1061-1069
Echinococcus granulosus, hydatid cysts of sheep and human origin, isolation and characterization of carbohydrate antigen with blood group P₁ activity, occurrence of precipitating antibodies against this antigen in 11 of 21 sera from human cases of echinococcosis

Carbohydrates

- Ryley, J. F.; Gordon, R. W.; and Stark, J. R., 1974, J. Protozool., v. 21 (4), 596-598
Eimeria bovis, *E. stiedai*, storage polysaccharides shown to be amylopectin

Carbohydrates

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Schistosoma mansoni in mice (exper.), comparative effects of antimonial and non-antimonial schistosomicides on host carbohydrate metabolism; antimonials did not affect metabolism while non-antimonial (niridazole) showed similar effects in host and parasite

Carbohydrates

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Trypanosoma rhodesiense, adrenalectomized rats, increased parasitemia and earlier death, relation to decreases in total liver glycogen, reduced rate of glucose consumption by trypanosomes, endocrine system as possible regulator of trypanosome biochemistry, possible mechanism in pathogenesis of trypanosomiasis

Carbohydrates

- Schaefer, F. W. III; et al., 1977, J. Parasitol., v. 63 (4), 687-689
Echinostoma liei, aerobic and anaerobic fermentation of glucose, production of CO₂, mixture of volatile fatty acids, lactate, and succinate

Carbohydrates

- Schaefer, F. W. III; Martin, E.; and Mukkada, A. J., 1974, J. Protozool., v. 21 (4), 592-596
Leishmania tropica promastigotes, glucose transport system

Carbohydrates

- Schaefer, F. W. III; and Mukkada, A. J., 1976, J. Protozool., v. 23 (3), 446-449
Leishmania tropica promastigotes, specificity of glucose transport system

Carbohydrates

- Schiller, E. L.; et al., 1975, J. Parasitol., v. 61 (3), 385-389
Schistosoma mansoni, adults cultured in vitro under aerobic vs. anaerobic conditions, no differences in glucose utilization and lactic acid production, virtually no egg-laying in absence of oxygen

Carbohydrates

- Schrevel, J.; et al., J. Protozool., v. 23 (4), 19A-20A [Abstract]
Gregarina blaberae, study of surface carbohydrates with lectins

Carbohydrates

- Schrevel, J.; Philippe, M.; and Tronchin, G., 1975, J. Protozool., v. 22 (3), 68A [Abstract]
Gregarina blaberae trophozoite, body wall, structural, biochemical, and physiological aspects

Carbohydrates

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Nippostrongylus brasiliensis-infected rats, intestinal absorption of hexoses, possible relation to immune reaction

Carbohydrates

- Seed, T. M.; and Kreier, J. P., 1976, Infect. and Immun., v. 14 (6), 1339-1347
Plasmodium berghei, surface charge and lectin-binding capacity of isolated malaria parasites vs. host erythrocytes compared by chromatographic, electrophoretic, and cytochemical methods

Carbohydrates

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carbohydrates and phospholipids in surface coat of Trypanosoma brucei brucei, variations from most types of mammalian cells

Carbohydrates

- Seliukaite, Z.; and Semenov, V. M., 1976, Tsitologija, v. 18 (1), 91-97
Trichomonas muris, trophonts, ultrastructural and cytochemical peculiarities, absence of mitochondria

Carbohydrates

- Sethi, K. K.; et al., 1977, J. Parasitol., v. 63 (6), 1076-1080
Toxoplasma gondii, lectin-binding sites demonstrated on cell wall of brain cysts but not on surface membrane of trophozoites

Carbohydrates

- Shakespeare, P. G.; and Trigg, P. I., 1973, J. Protozool., v. 20 (4), 527-528
Plasmodium knowlesi, glucose catabolism, changes during life cycle

Carbohydrates

- Shakespeare, P. G.; and Trigg, P. I., 1973, Nature (5391), v. 241, 538-540
Plasmodium knowlesi, glucose catabolism in normal rhesus monkey erythrocytes, in parasitized erythrocytes, and in parasites "freed" from their host erythrocytes

Carbohydrates

- Shakespeare, P. G.; and Trigg, P. I., 1974, J. Protozool., v. 21 (3), 452 [Abstract]
Trypanosoma b. brucei, T. congolense, T. lewisi, bloodstream forms, glucose utilization

Carbohydrates

- Sheppard, J.; et al., 1977, Canad. Fed. Biol. Soc., Programme and Proc. 20. Ann. Meet., v. 20, 120 [Abstract]
Trypanosoma congolense, T. lewisi, complement activating factors, one of which may be a hexose polymer

Carbohydrates

- Sherman, I. W.; and Tanigoshi, H., 1974, J. Protozool., v. 21 (4), 603-607
Plasmodium lophurae-infected erythrocytes, enhanced glucose transport

Carbohydrates

- Simon, M. W.; Rusnak, J. M.; and Mukkada, A. J., 1976, Exper. Parasitol., v. 39 (1), 51-58
Leishmania tropica promastigotes in vitro, sensitivity to toxic effects of bilirubin (loss of viability, decreased sugar and amino acid uptake, increased efflux of intracellular sugars, hexokinase activity, lowered respiration), results suggest irreversible damage to cell membrane, possible culture loss if bilirubin concentration of hemoglobin solution used is too high

Carbohydrates

- Slutzky, G. M.; and Greenblatt, C. L., 1977, FEBS Letters, v. 80 (2), 401-404
Leishmania tropica, isolation of immunologically active factor from cultures, contains carbohydrate segment produced by parasite and protein segment incorporated from growth medium

Carbohydrates

- Slutzky, G. M.; and Greenblatt, C. L., 1977, J. Protozool., v. 24 (4), 67A [Abstract]
Leishmania tropica, isolation and characterization of immunologically active carbohydrate-protein complex from cultures

Carbohydrates

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Trypanosoma vespertilionis and T. dionisii in culture compared, population density, morphologic alterations, changes in glucose consumption and pH of media, antigenic analysis

Carbohydrates

- Sosa, A.; et al., 1977, Life Sc., v. 21 (7), 1021-1032
Cysticercus cellulosae, external vesicular membrane, presence of surface glycocalyx-like coat rich in both acidic and neutral carbohydrates and presence of negative surface potential

Carbohydrates

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Leptomonas pessoai, carbohydrates in Golgi complex and cytoplasmic membranes, ultra-structure

Carbohydrates

- de Souza, W.; Bunn, M. M.; and Angluster, J., 1976, J. Protozool., v. 23 (2), 329-333
Leptomonas pessoai, cell surface polysaccharides and/or glycoproteins demonstrated by agglutination with concanavalin A as well as cytochemical reactions

Carbohydrates

- Starling, J. A.; 1975, Tr. Am. Micr. Soc., v. 94 (4), 508-523
Hymenolepis diminuta and *Moniliformis dubius*, tegumental hexose transport, compared to glucose transport of other tapeworms and mucosal brush border of the vertebrate intestine, correlation between mechanisms of membrane transport and biochemical environment of absorptive surfaces

Carbohydrates

- Starling, J. A.; and Fisher, F. M., jr., 1975, J. Parasitol., v. 61 (6), 977-990
Moniliformis dubius, females, kinetics and specificity of hexose absorption

Carbohydrates

- Steiger, R. F.; and Meshnick, S. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 441-443
Leishmania donovani, *L. braziliensis*, amino acid and glucose utilization by parasites

Carbohydrates

- Steiger, R. F.; and Steiger, E., 1977, J. Protozool., v. 24 (3), 437-441
Leishmania donovani, *L. brasiliensis*, promastigotes, nutritional requirements studied in modifications of simple defined culture medium, special emphasis placed on glucose and amino acid requirements

Carbohydrates

- Stevens, A. R.; and Stein, S., 1977, J. Parasitol., v. 63 (1), 151-152
Acanthamoeba, *Naegleria*, pathogenic and nonpathogenic species (strains), susceptibility to lectin-induced agglutination

Carbohydrates

- Stotish, R. L.; et al., 1976, J. Biol. Chem., v. 251 (2), 302-307
Eimeria tenella, glycoprotein unique to cytoplasm of unsporulated oocyst, purification and partial characterization, disappearance from cytoplasm during sporulation, possible incorporation into sporozoite membranes, studies on possible role in immunity inconclusive

Carbohydrates

- Sukkar, M. Y.; Omer, A. H. S.; and Ahmed, N. El D., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 327-332
Schistosoma mansoni in humans with hepatic enlargement, impaired glucose tolerance and abnormal growth hormone secretion, possible relationships

Carbohydrates

- Surgan, M. H.; and Roberts, L. S., 1976, J. Parasitol., v. 62 (1), 87-93
Hymenolepis diminuta, H. microstoma, effect of purified bile salts on absorption of glucose and oleic acid

Carbohydrates

- Sutton, R. H., 1976, Austral. J. Exper. Biol. and Med. Sc., v. 54 (5), 449-458
Eperythrozoon ovis, carbohydrate metabolism, infected sheep erythrocytes, increased glucose utilization and lactic acid production

Carbohydrates

- Sutton, R. H., 1977, Austral. Vet. J., v. 53 (10), 478-481
Eperythrozoon ovis, sheep, low venous blood glucose levels, increased blood lactic acid levels

Carbohydrates

- Svarc, R.; and Zmoray, I., 1974, Biologia, Bratislava, s. B, Zool. (1), v. 29 (2), 121-127
Muellerius tenuispiculatus larvae, penetration into and development in soles of feet of *Cepaea vindobonensis* and *Succinea putris*, localization near sole glands, acid mucopolysaccharides and phospholipids in this site probably have role in larval nutrition

Carbohydrates

- Swiderski, Z.; and Mackiewicz, J. S., 1976, Internat. J. Parasitol., v. 6 (1), 61-73
Glaridacris catostomi, vitellogenesis, electron microscope study: vitelline cell differentiation; role of nucleus, its maturation and transformation during vitelline cell cytomorphosis; nuclear and cytoplasmic glycogen synthesis and storage; origin and development of shell globules

Carbohydrates

- Takeuchi, T.; Weinbach, E. C.; and Diamond, L. S., 1977, Exper. Parasitol., v. 43 (1), 107-114
Entamoeba histolytica, phosphorylase, particulate glycogen, subcellular distribution, characterization, particulate glycogen may be polysaccharide-protein complex

Carbohydrates

- Takizawa, H.; Vivier, E.; and Petitprez, A., 1975, J. Protozool., v. 22 (3), 359-368
Nosema bombycis, cytochemistry, presence of nucleic acids, polysaccharides, and acid phosphatases demonstrated, localization in various stages of development from schizont to spore

Carbohydrates

- Threadgold, L. T., 1976, Exper. Parasitol., v. 39 (1), 119-134
Fasciola hepatica, glycocalyx of tegument, more precise definition of morphology and chemistry using histochemical tests and controls combined with specific enzyme digestions and fine structural studies, variations depending on environment immediately prior to fixation and also on fixation and postfixation treatment

Carbohydrates

Trigg, P. I.; and Shakespeare, P. G., 1976, *Parasitology*, v. 73 (2), 149-160
changes in uninfected rhesus monkey erythrocytes incubated in vitro (osmotic fragility, acetylthiocholinesterase activity, glucose catabolism, ATP content) in relation to susceptibility of these cells to invasion by *Plasmodium knowlesi*, results suggest that maintenance of erythrocyte surface integrity is necessary prerequisite for efficient culture system for malaria parasite

Carbohydrates

Trimble, J. J. III; and Lumsden, R. D., 1975, *J. Parasitol.*, v. 61 (4), 665-676
Taenia crassiceps, *cysticercus*, presence of tegument surface glycocalyx, cytochemical characterization of membrane-associated carbohydrates, comparison with adult tapeworms

Carbohydrates

Trimble, J. J. III; and Thompson, S. A., 1975, *Ztschr. Parasitenk.*, v. 47 (2), 131-144
Ascaris suum, intestinal epithelium, carbohydrate cytochemistry, microvilli surface, basal lamella, electron microscopy

Carbohydrates

Trimble, J. J. III; and Thompson, S. A., 1976, *Cell and Tissue Research*, v. 172 (3), 357-363
Ascaris suum, *Parascaris equorum*, distribution of concanavalin A binding site on nematode intestinal epithelium

Carbohydrates

Uglem, G. L., 1976, *Biochim. et Biophys. Acta*, v. 443 (1), 126-136
Hymenolepis diminuta, evidence for sodium ion exchange carrier linked with glucose transport across brush border, proposed model for glucose transport system

Carbohydrates

Uglem, G. L.; and Love, R. D., 1977, *Exper. Parasitol.*, v. 43 (1), 94-99
Hymenolepis diminuta, properties of phlorizin inhibition of glucose transport

Carbohydrates

Uglem, G. L.; and Read, C. P., 1975, *J. Parasitol.*, v. 61 (3), 390-397
Schistosoma mansoni, adults, mechanisms of sugar transport and metabolism, differences in males, females, and pairs

Carbohydrates

Vivares, C. P.; Loubes, C.; and Bouix, G., 1976, *Ann. Parasitol.*, v. 51 (1), 1-14
Thelophania maenadis, *Nosema pulvis*, cytochemistry

Carbohydrates

Vivares, C. P.; and Van Wormhoudt, A., 1976, *Compt. Rend. Soc. Biol.*, Paris, v. 170 (1), 71-77
Cephaloidophora conformis in *Pachygrapsus marmoratus* (caecum digestif anterieur), carbohydrate metabolism of host and parasite: region de Marseille

Carbohydrates

Wang, C. C.; Weppelman, R. M.; and Lopez-Ramos, B., 1975, *J. Protozool.*, v. 22 (4), 560-564
Eimeria tenella oocysts, amylopectin granules, isolation, purification, composition, identification of amylopectin phosphorylase, preliminary studies on properties and regulation

Carbohydrates

Waterator, J. L.; and Van Landingham, S. B., 1976, *J. Parasitol.*, v. 62 (1), 152-153
host-induced histochemical variations in *Telorchis bonnerensis* reared in *Ambystoma tigrinum* vs. *Chelydra serpentina*, histochemical resemblance to *T. corti* when both reared in *C. serpentina*

Carbohydrates

Watts, S. D. M., 1977, *Parasitology*, v. 75 (2), xviii [Abstract]
Schistosoma mansoni, effect of 1,7-bis(p-aminophenoxy)heptane (153C51) on glucose transport, schistosomicidal activity apparently not due to this effect

Carbohydrates

Wheater, P. R.; and Wilson, R. A., 1976, *Parasitology*, v. 72 (1), 99-109
Schistosoma mansoni, tegument, histochemistry, main components are neutral glycoprotein and phospholipid, differentiation from other schistosome tissues on the basis of marker enzymes

Carbohydrates

Wilkins, D.; and Lee, D. L., 1976, *Parasitology*, v. 72 (1), 51-63
Histomonas meleagridis, caecal wall and liver of infected turkey poults, changes in amount and distribution of acid and alkaline phosphatase, non-specific esterase, glycogen, lipid, and acid mucopolysaccharide

Carbohydrates

Wilson, P. A. G., 1976, *Ztschr. Parasitenk.*, v. 49 (3), 243-252
Haemonchus contortus, *Nippostrongylus brasiliensis*, infective larvae, carbohydrate content and ageing process contrasted; carbohydrate level variation in *H. contortus* due to capacity to synthesize glycogen during ageing, low level in *N. brasiliensis* remains constant

Carbohydrates

Wittrock, D. D., 1976, *J. Parasitol.*, v. 62 (5), 834-836
Quinqueserialis quinqueserialis, cirrus tegument, ultrastructure, histochemical tests suggest major component is glycoprotein

Carbon dioxide

Bryant, C., 1975, *Advances Parasitol.*, v. 13, 35-69
carbon dioxide utilisation and regulation of respiratory metabolic pathways in parasitic helminths, extensive review

Carbon dioxide

Carter, R.; and Nijhout, M. M., 1977, *Science* (4276), v. 195, 407-409

Plasmodium gallinaceum, control of gamete formation (exflagellation) in vitro solely by change in pH in blood as it moves from environment of circulation to that of atmosphere, the pH rise being mediated by fall in carbon dioxide tension as blood equilibrates with atmosphere

Carbon dioxide

Dvorak, J. A.; and Howe, C. L., 1977, *J. Protozool.*, v. 24 (3), 416-419

Toxoplasma gondii in controlled-environment culture system, effect of various factors on penetration of host cells by parasites (bicarbonate ion, CO₂, pH, and host cell culture age)

Carbon dioxide

van der Gulden, W. J. I.; and van Aspert-van Erp, A. J. M., 1976, *Exper. Parasitol.*, v. 39 (1), 45-50

Symphacia muris, effect of external stimuli on egg hatching (enzymes of intestinal tract, temperature, pH, pCO₂, redox potential), results indicate hatching mechanism of oxyurids identical to that of various nematodes which hatch in intestinal tract but dependent on environment to appreciably lesser extent

Carbon dioxide

Hanna, R. E. B.; and Jura, W., 1976, *Research Vet. Sc.*, v. 20 (3), 344-345

Fasciola gigantica, bile less important than carbon dioxide in activation of metacercariae prior to excystment

Carbon dioxide

Jensen, J. B.; et al., 1976, *J. Parasitol.*, v. 62 (2), 195-198

Eimeria spp., effect of substituting various gases for CO₂ in established excystation procedure, evidence that role of CO₂ is that of allosteric effector enhancing action of reducing agent

Carbon dioxide

Jolley, W. R.; et al., 1976, *J. Parasitol.*, v. 62 (2), 199-202

Eimeria stiedai, *E. tenella*, formation of sulfhydryl groups in walls of oocysts subjected to in vitro excystation, effect of cysteine hydrochloride-CO₂ complex on oocyst wall proteins

Carbon dioxide

Jolley, W. R.; and Nyberg, P. A., 1974, *Proc. Helminth. Soc. Washington*, v. 41 (2), 259-260

Eimeria tenella, *E. stiedai*, in vitro excystation, formation of carbon dioxide-cysteine complex in incubation fluid

Carbon dioxide

Linstead, D. J.; Klein, R. A.; and Eldridge, M. V., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 267-268 [Abstract]

Trypanosoma mega, *T. brucei*, *Crithidia fasciculata*, presence of 3 enzymes capable of carbon dioxide fixation in culture as source of carbon for metabolism

Carbon dioxide

Miller, J. A.; et al., 1977, *J. Econom. Entom.*, v. 70 (2), 179-182

techniques for shipping large numbers of *Haematobia irritans*, O₂ depletion and CO₂ accumulation critical factors in survival of flies, laboratory and field trials

Carbon dioxide

Operti, M. S., 1973, *J. Protozool.*, v. 20 (4), 530

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- Caspian Sea. See Seas, Caspian Sea.
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Centrifugation

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Centrifugation

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improved technique for separating oocysts from large amounts of feces

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Centrifugation

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Centrifugation

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Centrifugation

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Centrifugation

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Centrifugation

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Chad. See Tchad.

Check list. See Indices.

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- Chromosomes**
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Ascaridia dissimilis, *A. galli*, gametogony, spermatogenesis, mitotic and male meiotic karyotypes, both species similar

Chromosomes

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Trichinella nelsoni, laboratory strain, karyotype of males and females

Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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Chromosomes

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- Circadian rhythms.** See Periodicity.
- Circulatory system.** See Cardiovascular system.
- Circumoval precipitation test.** See Immunity, Precipitation.
- Cirrhosis.** See Liver.
- Climate and weather.** [See also Humidity; Overwintering; Temperature]
- Climate and weather**
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- Climate and weather**
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- Climate and weather**
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- Climate and weather**
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- Climate and weather**
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- Climate and weather**
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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

Fuglsang, H.; et al., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 365-369

Onchocerca volvulus in humans, variations in concentrations of microfilariae in diagnostic skin snips suggests seasonal variation corresponding to climatic changes or to biting activity of *Simulium* vectors

Climate and weather

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Climate and weather

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Climate and weather

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Leptotrombidium deliense, *L. fletcheri*, influence of rainfall on mite populations in forest and grassland habitats, larvae were more abundant during heavy rainfall and simulated rainfall maintained larval populations for longer periods during dry weather

Climate and weather

Gibson, T. E.; and Everett, G., 1976, *Brit. Vet. J.*, v. 132 (1), 50-59

Haemonchus contortus, development and survival of free-living stages on pasture studied over period of 3 years, only in July, August, and September were climatic conditions favorable, concluded that climate in Southern England is not ideal for development and survival of preparasitic stages

Climate and weather

Gibson, T. E.; and Everett, G., 1976, *Research Vet. Sc.*, v. 20 (2), 158-161

Nematodirus filicollis, development and survival of eggs placed on grass plots over a period of a year, extraordinary persistence of eggs and larvae under weather conditions of southern England makes control difficult

Climate and weather

Gibson, T. E.; and Everett, G., 1977, *Research Vet. Sc.*, v. 23 (2), 191-195

Ostertagia circumcincta, lambs (exper.), contribution of residual pasture larvae and the spring rise as sources of infection, weather conditions as useful tool in predicting patterns of infection and most effective preventive measures

Climate and weather

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Climate and weather

- Hodasi, J. K. M., 1976, Ztschr. Parasitenk., v. 48 (3-4), 281-286
Fasciola hepatica, vectors, *Lymnaea truncatula*, uninfected, maintained at low temperature (5°C) three months, returned to normal laboratory temperature, mature snails reduced in growth and reproduction, young snails increased in longevity and reproduction; under England field conditions young snails apparently maintain population

Climate and weather

- Jakhmola, S. S.; and Yadav, H. S., 1975, Indian J. Entom., v. 35 (2), 170-172
Mermis sp., degree of parasitism correlated with rainfall, biological control of caterpillars
Antigastra catalaunalis (haemocoele):
 Madhya Pradesh, India

Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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Climate and weather

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 high worm burdens of gastrointestinal nematodes in red deer during 1975 survey; low worm burdens in both treated (levamisole, cambendazole) and untreated deer during 1976 control project, concluded that climatic conditions were suitable for larval development in 1975 but not in 1976; recommendations for future parasite control: Invermay Farm, New Zealand

Climate and weather

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Climate and weather

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 prevalence and incidence of *Schistosoma nasale* in cattle and buffaloes, disease dependent upon host age and sex, number of infected snail intermediate hosts, temperature, and rainfall: Karnataka State (Dhanayakanapura, Bangalore District; Hunchipura, Mandya District)

Climate and weather

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Haemaphysalis silacea, ecology: habitat preferences, distribution in relation to microclimatic conditions, seasonal activity, seasonal occurrence on hosts, sex ratio of ticks, host/tick interactions as result of host daily movements and feeding habits, site of attachment: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Climate and weather

- Norval, R. A. I., 1977, J. Parasitol., v. 63 (4), 734-739
Amblyomma hebraeum, distribution of larvae in relation to vegetation and microclimate, seasonal activity of all stages in relation to macroclimate, life cycle normally of 3 years duration, adult and nymphal activity correlated with daylength, temperature, and rainfall: Eastern Cape Province, South Africa

Climate and weather

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- Climate and weather
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- Climate and weather
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- Climate and weather
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 Strongyloides fuelleborni, survey, geographic distribution, incidence in human feces, endemic in tropical forest regions, sporadic in savannah regions, slightly higher prevalence in children: West, Central and East Africa
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 Papasarathorn, T.; et al., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (1), 82-92
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- Climate and weather
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- Climate and weather
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- Climate and weather
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- Climate and weather
 Roberts, L. W.; Muul, I.; and Robinson, D. M., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (2), 207-213
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 Ancylostoma duodenale, human, seasonal variation in egg counts and larval abundance and distribution, evidence for occurrence of arrested development as an adaptation to a seasonally unfavorable external environment: West Bengal, India
- Climate and weather
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- Climate and weather
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 comparison of parasite fauna between emaciated and normal cattle in Zaria and Samaru slaughterhouses during 1973 (a drought year); poor nutrition lowers resistance of cattle and sheep to parasitism in drought-affected areas of Zaria; suggestions for prevention of helminthiasis during drought: Nigeria

Climate and weather

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Amblyomma americanum adults, daily and seasonal activity patterns, vertical migration, climatic conditions, different habitat types

Climate and weather

Semtner, P. J.; Sauer, J. R.; and Hair, J. A., 1973, *J. Med. Entom.*, v. 10 (2), 202-205

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Climate and weather

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Climate and weather

Smith, M. W., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (4), 483-492

Rhipicephalus appendiculatus, *Amblyomma variegatum*, immature stages, effect of immersion in water (in laboratory but under field conditions), implications for correlation of seasonal periodicity with rainfall

Climate and weather

Smyth, M., 1973, *Austral. J. Zool.*, v. 21 (1), 91-101

Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, survey, distributions overlap remarkably little over long boundaries, roughly correlated with climate, vegetation, and, in one case, soil: South Australia

Climate and weather

Southcott, W. H.; Major, G. W.; and Barger, I. A., 1976, *Austral. J. Agric. Research*, v. 27 (2), 277-286

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Climate and weather

Theis, J. H.; and Franti, C. E., 1971, *J. Med. Entom.*, v. 8 (1), 23-28

Rhipicephalus sanguineus, dogs, survey, 1965-1966, lowered infestation rates due to dog eradication program, ecological data (distribution on host body, rainfall, temperature, humidity, seasonal distribution), analysis by multiple regression models: Singapore Island

Climate and weather

Tizard, I. R.; Fish, N. A.; and Quinn, J. P., 1976, *J. Hyg., Cambridge*, v. 77 (1), 11-21

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Climate and weather

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Climate and weather

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Climate and weather

Wijers, D. J. B., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (4), 451-463

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Climate and weather

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Boophilus microplus, factors affecting distribution in RTS (reputed tick scarcity) areas as compared to tick infested areas in surrounding districts: Australia

Climate and weather

Williams, J. C.; and Bilkovich, F. R., 1973, *Am. J. Vet. Research*, v. 34 (10), 1337-1344

Ostertagia ostertagi, distribution of infective larvae on pasture herbage, rainfall and temperature: Louisiana

Colitis. [See also Intestine]

Colitis

Carayon, A., 1975, *Medecine Trop.*, v. 35 (2), 119-122

human severe acute amoebic colitis, amoebomas, surgical complications, clinical management

Colitis

Carayon, A.; and Bezes, H., 1975, *Medecine Trop.*, v. 35 (2), 123-130

acute necrotic amoebic colitis, pathology, clinical management, surgical measures

Colitis

Carayon, A.; and Gargaratchi, 1975, *Medecine Trop.*, v. 35 (2), 169-173

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- Colitis
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- Colitis
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successful treatment of 22 persons with amoebic colitis using tinidazole, few side effects: Mexico
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acute severe amoebic colitis, clinical and pathologic review, surgical aspects
- Colitis
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- Colitis
Pignol, F.; Colonna, J.; and Gallais, H., 1975, *Medecine et Malad. Infect.*, v. 5 (12), 579-582
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- Colitis
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- Colitis
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- Colitis
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pathological and clinical study of human malignant amoebic colitis
- Colitis
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Entamoeba histolytica, guinea pigs, early stages in development of acute amoebic colitis, cellular and vascular changes accompanying invasion of lamina propria (continued epithelial shedding, polymorphonuclear leukocyte degeneration, endothelial damage and occlusive thrombosis in capillaries and venules)
- Collection of parasites. See Technique, Parasite collection and recovery.
- Colombia
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- Colonies, Arthropoda. See Technique, Rearing, Arthropoda.
- Colorado. See United States, Colorado.
- Commensalism. See Symbiosis.
- Complement fixation. See Immunity, Complement.
- Concurrent infections. See Mixed infections.
- Congenital immunity. See Immunity, Native; Immunity, Passive.
- Congenital infection. See Prenatal infection.
- Conjunctivitis. See Eye.
- Connecticut. See United States, Connecticut.
- Control, Biological. See Biological control.
- Coprology. See Technique, Fecal examination.
- Copulation. See Reproduction.
- Counterimmunoelectrophoresis. See Immunity, Precipitation.
- Counting techniques. See Technique, Counting; Technique, Egg-Count; Technique, Statistical methods.
- Cross-immunity. See Immunity, Cross-reactions.

- Crowding
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Diphyllobothrium dendriticum plerocercoids in Mesocricetus auratus, Larus canus, and Alopex lagopus (exper. in all), frequency of primary vs. secondary strobilae in relation to host, age of worms, and density of infection compared with *D. latum* in *M. auratus* and *A. lagopus* and *D. ditremum* in *M. auratus*, primary strobilae appear in some individuals in response to unfavorable conditions; regeneration and/or growth studies show that rounded posterior segment in young *D. dendriticum* is not necessarily posterior 'end' of plerocercoid
- Crowding
Chappell, L. H.; and Pike, A. W., 1976, Internat. J. Parasitol., v. 6 (4), 333-339
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- Crowding
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Hymenolepis diminuta, activity of glycogen synthase as a function of development and with crowding
- Crowding
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Vampirolepis nana, mathematical expression of parasite growth as function of population density: development in mice infected with 8, 24, 80, or 240 eggs; development in mice of various inbred strains; development in relation to host sex and age and duration of infection; development from different pools of eggs
- Crowding
Forrester, D. J.; et al., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 55-59
Orchipeidum jollieii from *Grus canadensis tabida*, measurements, smaller size of flukes from multiple infections indicates possible "crowding effect"
- Crowding
Halvorsen, O.; and Andersen, K., 1973, Norwegian J. Zool., v. 21 (4), 326-327 [Abstract]
Diphyllobothrium dendriticum plerocercoids in golden hamsters and common gulls (both exper.), crowding and increased survival
- Crowding
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Hymenolepis diminuta, in vitro rate of absorption of glucose/unit dry weight of worm falls with increasing worm age, with increasing worm weight, and with increasing infection density
- Crowding
Hopkins, C. A.; Goodall, R. I.; and Zajac, A., 1977, Parasitology, v. 74 (2), 175-183
Hymenolepis diminuta, *H. microstoma*, mice, effect of primary immunizing infection with one species on growth and survival of secondary infection with heterologous species; data on longevity and pattern of worm loss in primary *H. microstoma* infections in mice; results show that *H. microstoma* in low level infections is able to evade host immune response, heavier worm burden initiates worm loss which may be physiologically ('crowding effect') rather than immunologically mediated
- Crowding
Kayes, S. G.; and Oaks, J. A., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 575-580
effect of inoculum size and length of infection on distribution of *Toxocara canis* larvae in mouse, analysis of variance of larval recovery from various organs, crowding effect observed in heavy infections manifested as altered dispersion rates
- Crowding
Lang, J. D., 1977, J. N. York Entom. Soc., v. 84 (4), 1976, 243-245
Pediculus humanus capitis, sex ratio in natural and reared populations, females not significantly reduced under crowded conditions; shorter longevity in newly emerged females isolated with males attributed to their not being fully sclerotized prior to copulating, not the result of frequent copulations by males
- Crowding
Le Jambre, L. F.; and Ractliffe, L. H., 1976, Parasitology, v. 73 (2), 213-222
Haemonchus contortus cayugensis, lambs, infection with selected strain of smooth or of linguiform worms and subsequent grazing on same pasture, seasonal changes in phenotypes in relation to population density (affects frequencies of linguiform A vs. B but not of smooth vs. linguiform), "It appears therefore that the proportion of smooth to linguiform worms is a stable equilibrium maintained by natural selection."
- Crowding
Mills, C. A., 1976, Parasitology, v. 73 (2), vi-vii [Abstract]
Transversotrema patialense, survival and fecundity on *Brachydanio rerio* (exper.), age-dependent but not density-dependent, temperature optimum at 23°C., survival reduced on small hosts, growth in size of adult fluke
- Crowding
Rajasekariah, G. R.; and Howell, M. J., 1977, Internat. J. Parasitol., v. 7 (2), 119-121
Fasciola hepatica, effects of different doses of metacercariae and of host age on parasite establishment in rats, neither crowding effect nor competitive inhibition occurred, factors involved in age resistance develop at about 10 weeks of age

- Cuba
Dobsinsky, O., 1974, Vet. Med., Praha, v. 47, v. 19 (5), 255-263
polyparasitism by helminths in cattle, incidence, population dynamics, seasonal distribution: Cuba
(Haemonchus; Oesophagostomum; Trichostrongylus; Strongyloides papillosus; Bunostomum; Ostertagia; Moniezia; Dictyocaulus viviparus; Neascaris vitulorum; Trichocephalus; Cooperia; Mecistocirrhoza; Nematodiroza; Chabercioza; Paramfistomoza; Fascioloza)
- Cultivation. See Culture.
- Culture. [See also Growth]
- Culture
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- Culture, Acanthocephala
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Moniliformis moniliformis juveniles, in vitro cultivation, partial growth achieved
- Culture, Arthropoda. See Technique, Rearing, Arthropoda.
- Culture, Cestoda
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Echinococcus granulosus, maintenance of hydatid cysts in vitro using synthetic media, evaluation of macroscopic appearance of these cysts following implantation into peritoneal cavity of gerbils as criterion of cyst viability, possible use in screening potential cysticidal drugs
- Culture, Cestoda
Esch, G. W.; and Smyth, J. D., 1976, Internat. J. Parasitol., v. 6 (2), 143-149
Taenia crassiceps, in vitro growth and development to strobilar stage, comparison with in vitro culture of Echinococcus granulosus
- Culture, Cestoda
Ferretti, G.; and Gabriele, F., 1973, Riv. Parasitol., Roma, v. 34 (3), 235-237
Vampirolepis nana, culture apparatus
- Culture, Cestoda
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Hymenolepis diminuta, in vitro maintenance system (modification of Schiller system), morphological and metabolic criteria as indices of worm's condition in presence and absence of various additives
- Culture, Cestoda
Heath, D. D., 1976, Internat. J. Parasitol., v. 6 (1), 19-24
Taenia pisiformis larvae developing in vitro, period when protective antigens are elaborated, immunizing potential of non-living antigens from in vitro culture for rabbits, exogenous antigens more protective than somatic, biochemical analysis of exogenous antigens
- Culture, Cestoda
Heath, D. D.; and Lawrence, S. B., 1976, Parasitology, v. 73 (3), 417-423
Echinococcus granulosus, culture in vitro from oncosphere to immature hydatid cyst, cyst morphogenesis; safety techniques to avoid accidental infection of laboratory workers
- Culture, Cestoda
Heath, D. D.; and Osborn, P. J., 1976, Internat. J. Parasitol., v. 6 (6), 467-471
Echinococcus granulosus, laminated membrane of parasite not host origin, formation in defined medium, culture of protoscoleces may reduce contaminating host antigens and thus be of value in reducing non-specific reactions during immunodiagnosis
- Culture, Cestoda
Khan, Z. I.; and De Rycke, P. H., 1975, Biol. Jaarb., Gent, v. 43, 151-172
Hymenolepis microstoma, in vitro cultivation, artificially excysted cysticercoids to egg producing adults, role of serum for strobilization and gametogenesis (results suggest success depends upon presence of certain heme compounds in the serum)
- Culture, Cestoda
Khan, Z. I.; and De Rycke, P. H., 1976, Ztschr. Parasitenk., v. 50 (1), 73-79
Hymenolepis microstoma, in vitro culture, added yeast extract increased sexual maturity, possible role of pyridoxin
- Culture, Cestoda
Paterson, H., 1977, Parasitology, v. 75 (2), xx [Abstract]
Moniezia expansa, M. benedeni, attempts to obtain hatched and sterile oncospheres for culture, hatching differences between species, large numbers of bacteria identified in eggs, elimination with chlorhexidine derivative for sterile oncospheres
- Culture, Cestoda
Rickard, M. D.; and Katiyar, J. C., 1976, Parasitology, v. 72 (3), 269-279
Taenia pisiformis, partial purification of antigens collected during in vitro cultivation, differential performance in intradermal skin test and rabbit immunization tests suggests that protective antigens and those provoking cell-mediated reactions may be different ones
- Culture, Cestoda
Seidel, J. S., 1975, J. Parasitol., v. 61 (4), 677-681
Hymenolepis microstoma, axenic development in vitro from oncosphere to gravid adult, retarded growth and abnormal development in cultures containing reducing agents

Culture, Cestoda

- Seidel, J. S.; and Voge, M., 1975, *J. Parasitol.*, v. 61 (5), 861-864
Hymenolepis nana, axenic development from oncosphere to infective cysticercoid, gas phase of 95 N₂-5CO₂ essential

Culture, Cestoda

- Sinha, D. P., 1976, *Indian J. Exper. Biol.*, v. 14 (1), 46-50
Hymenolepis nana, in vitro culture, yeast extract in media, extreme variation in properties of batches from various sources or from same source, necessity for careful examination of yeast for reproducible results

Culture, Cestoda

- Smyth, J. D., 1976, *Norwegian J. Zool.*, v. 24 (4), 469 [Abstract]
Echinococcus granulosus, *E. multilocularis*, strobilar differentiation by culturing in vitro, anomalous differentiation

Culture, Cestoda

- Smyth, J. D., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 314 [Abstract]
Echinococcus granulosus, *E. multilocularis*, variations in growth of protoscolexes in in vitro cultures

Culture, Cestoda

- Todoroff, T.; and Yurukova, D., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 329-335
Echinococcus granulosus, activity of sodium chloride and formalin against hydatid scolexes determined by motility, staining properties, and cultivation in vitro; method of cultivating in vitro is rapid and has certain advantages over mouse inoculation in assessing viability

Culture, Cestoda

- Voge, M., 1975, *J. Parasitol.*, v. 61 (3), 563-564
Hymenolepis diminuta, axenic development of cysticercoids from oncospheres hatched in vitro to fully developed larvae infective to rats, motility of developmental stages and of fully developed cysticercoids

Culture, Cestoda

- Voge, M.; et al., 1976, *J. Parasitol.*, v. 62 (6), 951-954
Hymenolepis diminuta, growth of cysticercoids in vitro, development in presence of L-cysteine twice as rapid under 100% nitrogen as under air, no growth obtained with several other reducing agents, limited growth with ascorbic acid and dithiothreitol, homocysteine or coenzyme A as effective as L-cysteine in stimulating complete development

Culture, Nematoda

- Burden, D. J.; and Hammet, N. C., 1976, *Vet. Parasitol.*, v. 2 (3), 307-311
Trichuris suis, comparison of infectivity of ova embryonated by 4 different methods, found that differences in method of culture profoundly affected ability of fully developed eggs to hatch and parasites to become established in pigs, ova of highest infectivity produced after culture in moist vermiculite

Culture, Nematoda

- Dick, J. W.; Leland, S. E., jr.; and Hansen, M. F., 1973, *Tr. Am. Micr. Soc.*, v. 92 (2), 225-230
Ascaridia galli, 4 hatching techniques for embryonated eggs compared, subsequent cultivation in medium Ae and supplemented medium Ac

Culture, Nematoda

- Douvres, F. W.; and Malakatis, G. M., 1977, *J. Parasitol.*, v. 63 (3), 520-529
Ostertagia ostertagi, in vitro cultivation, development from infective larvae to egg-laying adults, 70-minute exsheathing process and two-step roller culture system

Culture, Nematoda

- Guerrero, J.; and Mercadante, M. L. P., 1976, *Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo*, v. 13 (2), 391-400
Ascaris suum larvae, simplification of culture medium used for in vitro cultivation, results indicate that hemin plus any other protein supplement (replacing fetal calf serum) considerably increase larval development and survival

Culture, Nematoda

- Guerrero, J.; and Silverman, P. H., 1972, *Rev. Invest. Pecuaris*, v. 1 (2), 209-213
Ascaris suum, larval culture method, metabolic antigens immunizing mice

Culture, Nematoda

- Guerrero, J.; and Silverman, P. H., 1972, *Rev. Invest. Pecuaris*, v. 1 (2), 215-222
Ascaris suum larval culture, various media with gases; Eagles medium in air plus CO₂, best immunization of mice with metabolic antigens

Culture, Nematoda

- Hermoso, R.; Sanchez, M.; and Monteoliva, M., 1975, *Rev. Iber. Parasitol.*, v. 35 (3-4), 355-360
Ascaris lumbricoides, culture in media with added glucose or hemoglobin, soluble protein and hemoglobin content of certain tissues, values for body wall most accurately reflect physiological state of parasite; Tyrode solution with 1.0 g glucose and 0.3 g pig hemoglobin per liter best medium for culture

Culture, Nematoda

- Hsieh, H. C., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 568 [Demonstration]
Ancylostoma duodenale, *Necator americanus* and *Strongyloides stercoralis*-related spp., differentiation of species using a modified test-tube filter-paper culture

Culture, Nematoda

- Illgen, B.; Wenk, P.; and Seitz, H. M., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 178-179
Litomosoides carinii female in vitro, embryonic development and liberation of microfilariae

- Culture, Nematoda
Itagaki, H.; et al., 1975, Bull. Azabu Vet. Coll. (30), 57-62
Capillaria perforans eggs, development, optimum conditions for culture
- Culture, Nematoda
Iwamoto, I., 1972, Nettare Igaku (Trop. Med.), v. 14 (3), 124-137
Dirofilaria immitis, Wuchereria bancrofti, in vitro survival in various media, effects of temperature; D. immitis survival in dogs (exper.), periodicity, migration and localization
- Culture, Nematoda
Kadyrov, N. T., 1973, Vestnik Sel'skokhoz. Nauki Kazakhstana (11), 68-70
[Delafondia] invasive larvae cultured from uterine eggs, experimental infection of colts
- Culture, Nematoda
Kim, C. W., 1975, Progr. Clin. Path., v. 6, 267-288
extensive review of techniques used to diagnose human parasitic diseases
- Culture, Nematoda
Monteoliva Hernandez, M., 1973, Rev. Iber. Parasitol., v. 33 (4), 599-606
Ascaris, motility studies in vitro, motility longer with glucose than when fasting; longer at 25° C than at 37° C; younger worms more active than mature ones
- Culture, Nematoda
Rose, J. H., 1973, Research Vet. Sc., v. 14 (3), 326-333
Ostertagia circumcincta, O. ostertagi, Hyostroglylus rubidus, culture from infective larva to adult worm in WAE medium, other species of gastrointestinal nematodes underwent limited development in this medium or a modification thereof
- Culture, Nematoda
de Savigny, D. H., 1975, J. Parasitol., v. 61 (4), 781-782
Toxocara canis, larvae, in vitro maintenance, simple method of production of excretory-secretory antigen for use in serodiagnostic tests for visceral larva migrans
- Culture, Nematoda
Sommerville, R. I., 1976, J. Parasitol., v. 62 (2), 242-246
Haemonchus contortus, development and ecdysis in vitro, effects of changes in both ionic composition and osmotic pressure, potassium as necessary component of salt solution
- Culture, Nematoda
Sommerville, R. I., 1977, J. Parasitol., v. 63 (2), 344-347
Haemonchus contortus, development in vitro, effect of rumen fluid and of a succession of media which incorporated changes in pH, pCO₂, and pO₂ likely to be encountered in transition from rumen to abomasum
- Culture, Nematoda
Sommerville, R. I.; and Davey, K. G., 1976, Internat. J. Parasitol., v. 6 (5), 433-439
Anisakis sp. larva, cuticle formation and ecdysis in vitro, development restarted by physico-chemical stimuli (effect of different media, carbon dioxide, storage, temperature), feeding does not occur until after moulting
- Culture, Nematoda
Stromberg, B. E.; Khoury, P. B.; and Soulsby, E. J. L., 1977, Internat. J. Parasitol., v. 7 (2), 149-151
Ascaris suum, culture from third to fourth stage in chemically defined medium
- Culture, Nematoda
Weik, R. R.; and John, D. T., 1977, J. Parasitol., v. 63 (5), 868-871
Naegleria fowleri, agitated axenic mass cultivation, growth kinetics, medium changes during growth, data suggest predominantly aerobic metabolism and utilization of non-carbohydrate sources as carbon and energy sources
- Culture, Nematoda
Winward, L. D., 1976, Exper. Parasitol., v. 40 (1), 74-76
Syngamus trachea, larvae injected into embryonic chicken eggs survived entire period of time necessary for embryos to develop and hatch, some migrated to trachea and completed life cycle in chickens hatched from these eggs
- Culture, Protozoa
Akinshina, G. T.; and Zalkind, S. Ia., 1975, Biul. Eksper. Biol. i Med., v. 80 (10), 122-125
Toxoplasma gondii-infected pig embryonic kidney cells, host cell response to infection (morphological changes, absence of severe or advanced cytotoxic effect, preservation of high mitotic activity); persistence of infection
- Culture, Protozoa
Alexander, J., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 273 [Demonstration]
Leishmania mexicana, amastigotes in cultured mouse macrophages
- Culture, Protozoa
Al-Khateeb, G. H.; Al-Jeboori, T. I.; and Al-Janabi, K. A., 1977, Chemotherapy, v. 23 (4), 267-275
Leishmania donovani in vitro, action of sodium stibogluconate, metronidazole and dehydroemetine on mobility, morphology and survival of promastigotes
- Culture, Protozoa
Ambrosioni, P.; and Bernagozzi, M., 1972, Parasitologia, v. 14 (1), 45-51
Hartmannella castellanii, solid medium for axenic culture
- Culture, Protozoa
Angluster, J.; Bunn, M. M.; and de Souza, W., 1977, J. Parasitol., v. 63 (5), 922-924
Herpetomonas samuellesoi grown in defined medium, differentiation, influence of 2-deoxy-D-glucose, temperature, and time of cultivation

Culture, Protozoa

- Ardehali, S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 266-267 [Demonstration]
Leishmania enriettii, *L. tropica* major, culture forms, possible species differentiation by enumeration of free moving promastigotes growing in presence of rabbit antisera, trials with homologous and heterologous antisera

Culture, Protozoa

- de Azevedo, H. P.; and Roitman, I., 1977, J. Parasitol., v. 63 (3), 485
Trypanosoma cruzi Y strain, successful continuous culture in HX25 modified defined medium

Culture, Protozoa

- Baker, J. R.; and Green, S. M., 1977, Ann. Trop. Med. and Parasitol., v. 71 (2), 141-145
Trypanosoma dionisii, presence of trypanosomal antigen on surfaces of mouse peritoneal macrophages cultivated in vitro in presence of parasite

Culture, Protozoa

- Ball, G. H.; and Chao, J., 1976, Exper. Parasitol., v. 39 (1), 115-118
Plasmodium relictum, utilization of amino acids by developing oocysts in presence of metabolizing insect cells

Culture, Protozoa

- Barry, D., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 273 [Demonstration]
Trypanosoma b. brucei, surface antigenic changes during transformation in culture, progressive loss of surface coat and progressive acquisition of antigenically universal culture form surface

Culture, Protozoa

- Barry, J. D.; and Vickerman, K., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 271-272 [Abstract]
Trypanosoma brucei in vitro, changes in surface antigens of clone populations during transformation from bloodstream to procyclic stage

Culture, Protozoa

- Bedrnik, P., 1975, J. Protozool., v. 22 (3), 58A [Abstract]
Eimeria tenella, successful propagation in tissue cultures derived from immune chickens suggests predominant role of circulating antibodies in immunity against coccidia

Culture, Protozoa

- Berens, R. L.; Brun, R.; and Krassner, S. M., 1976, J. Parasitol., v. 62 (3), 360-365
Leishmania donovani, simple monophasic medium for axenic culture which favors amastigote to promastigote transformation, promastigote size distribution and glucose consumption during cell cycle; medium also supports high population growth of *L. tarentolae* promastigotes and *Trypanosoma cruzi* (Costa Rica but not Corpus Christi strain) epimastigotes

Culture, Protozoa

- de Biasi, P.; et al., 1975, J. Protozool., v. 22 (3), 35A [Abstract]
Trypanosoma salamantae, *T. phylodriasi*, development in vitro, attempted exper. infection of laboratory bred juvenile snakes (only *T. phylodriasi* in *Bothrops alternatus* was successful), attempted exper. infection of mosquitoes negative except one *Culex dolosus* that showed flagellated developmental forms

Culture, Protozoa

- Bos, H. J., 1975, Ztschr. Parasitenk., v. 47 (2), 119-129
Entamoeba histolytica, human, strains isolated from all 5 symptomatic cases but only 3 out of 10 asymptomatic carrier cases, axenic culture following monoxenic culture with *Crithidia*, media used; discussion of possible relationship between virulence of strain and ease of culture

Culture, Protozoa

- Bos, H. J.; and van de Griend, R. J., 1977, Nature, London (5592), v. 265, 341-343
Entamoeba histolytica, lowered pathogenicity after axenic culture, restoration of virulence with cholesterol and establishment of higher degree of virulence by two successive passages through hamster liver, after hamster passage differences were observed in agglutinability induced by concanavalin A, in vitro toxicity towards guinea pig leukocytes, and antigenic analysis

Culture, Protozoa

- Bos, H. J.; and Hage, A. J., 1975, Ztschr. Parasitenk., v. 47 (2), 79-89
Entamoeba histolytica, virulent and carrier strains from humans, cultured axenically or with bacteria or *Crithidia* or passaged through hamster liver, varying virulence in experimental hamster liver infections

Culture, Protozoa

- Broccali, G.; and de Carneri, I., 1972, Parasitologia, v. 14 (1), 65-66
Trichomonas vaginalis, culture technique for maintenance and slow growth; possible system for drug testing

Culture, Protozoa

- Brown, C. G. D.; et al., 1973, Nature (5420), v. 245, 101-103
Theileria parva, infection and transformation of bovine lymphoid cells in vitro using both in vitro tick feed material and ground tick supernatant (*Rhipicephalus appendiculatus*)

Culture, Protozoa

- Browning, R. F.; Patton, W. H.; and Lytle, C. F., 1976, Exper. Parasitol., v. 39 (2), 195-203
Eimeria tenella-infected kidney cell cultures, increased incorporation of tritium-labeled thymidine in both parasitized and unparasitized cells, apparent parasite-induced stimulation of DNA synthesis

- Culture, Protozoa
Buckley, S. M., 1976, *Invert. Tissue Cult. Research Applic.* (Maramorosch), 201-232
Toxoplasma gondii, mice, transmission studies in Diptera cell lines, survival without multiplication, brief review
- Culture, Protozoa
Butcher, G. A.; and Richards, W. H. G., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 277-278
Plasmodium falciparum, present status of culture methods needed to produce a human malaria vaccine, symposium presentation
- Culture, Protozoa
Carter, R.; and Beach, R. F., 1977, *Nature*, London (5634), v. 270, 240-241
Plasmodium falciparum, gametocytes and gametogenesis in culture
- Culture, Protozoa
Cerva, L., 1975, *J. Protozool.*, v. 22 (3), 60A [Abstract]
Naegleria fowleri, N. gruberi, axenic growth in liquid media in relation to temperature of incubation, concentration of culture medium, and size of inoculum, results show N. fowleri may produce dense populations under conditions which could occur in water which may become dangerous source of infection for human primary amebic meningoencephalitis
- Culture, Protozoa
Cerva, L., 1977, *J. Protozool.*, v. 24 (4), 50A [Abstract]
Naegleria fowleri and N. gruberi, growth characteristics in axenic culture compared
- Culture, Protozoa
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Plasmodium knowlesi, factors affecting invasion of erythrocytes in vitro, results demonstrate that maintenance of integrity of surface of erythrocyte in culture is necessary prerequisite for efficient culture system

- Culture, Protozoa**
Trigg, P. I.; and Shakespeare, P. G., 1976, *Parasitology*, v. 73 (2), 149-160
changes in uninfected rhesus monkey erythrocytes incubated in vitro (osmotic fragility, acetylthiocholinesterase activity, glucose catabolism, ATP content) in relation to susceptibility of these cells to invasion by *Plasmodium knowlesi*, results suggest that maintenance of erythrocyte surface integrity is necessary prerequisite for efficient culture system for malaria parasite
- Culture, Protozoa**
Trueblood, M. S.; and Bear, P. D., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 54-58
Anaplasma marginale, cultivation in vitro, use of bovine lymph nodes in explant cultures using raft technique, use of lymph node organ cultures in roller culture bottles with and without antibiotics
- Culture, Protozoa**
Tsvetkova, A.; Iankov, N.; and Dorevska, K., 1975, *Vet. Med. Nauk.*, v. 12 (10), 83-87
Trichomonas gallinarum, *T. tenax*, culture and isolation on Trimed medium, optimum temperatures (38° and 36°)
- Culture, Protozoa**
Undeen, A. H., 1975, *J. Protozool.*, v. 22 (1), 107-110
Nosema algerae, growth in pig kidney cell cultures, early developmental stages described
- Culture, Protozoa**
Valkoun, A.; and Jira, J., 1975, *Ceskoslov. Epidemiol., Mikrobiol., Imunol.*, v. 24 (5), 289-292
Toxoplasma gondii, cultivation in human embryonic lung cell cultures, preparation of pure suspensions of zoites free from host cell contamination by filtration through paper filters
- Culture, Protozoa**
Viens, P.; et al., 1977, *Internat. J. Parasitol.*, v. 7 (2), 109-111
Trypanosoma musculi blood forms, in vitro cultivation in cell culture media
- Culture, Protozoa**
Villegas-Gonzalez, J.; and Fastag de Shor, A., 1974, *Bol. Med. Hosp. Inf.*, v. 31 (1), 35-49
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- Culture, Protozoa**
Visvesvara, G. S.; Callaway, C. S.; and Healy, G. R., 1973, *J. Protozool.*, v. 20 (4), 498
Naegleria fowleri, mechanism of pathogenesis in mouse brain and in monkey kidney cell cultures, light and electron microscopy, observations clearly show that amoebae invade and destroy brain tissue by active phagocytosis
- Culture, Protozoa**
van Vliet, H.H.D.M.; Op den Kamp, J.A.F.; and van Deenen, L.L.M., 1975, *J. Protozool.*, v. 22 (3), 428-432
Entamoeba invadens, development of medium for large-scale axenic cultivation, lipid requirement for growth, fatty-acid composition of amebae grown with different fatty acids and cholesterol
- Culture, Protozoa**
Wagner, K. P.; and Krassner, S. M., 1976, *Exper. Parasitol.*, v. 39 (2), 186-194
Leishmania tarentolae, promastigotes, substances in Trager's Defined Medium capable of acting as proline precursors, proline synthesis unaffected by presence of preformed proline indicating absence of end product feedback inhibition
- Culture, Protozoa**
Wagner, K. P.; and Krassner, S. M., 1976, *Exper. Parasitol.*, v. 39 (2), 222-233
Leishmania tarentolae promastigotes, replicating techniques, isolation of stable mutant strains resistant to chloramphenicol, isolation of cell lines stress-adapted to streptomycin and to high culture temperatures, factors influencing resistance, mode of action of chloramphenicol (inhibition of protein synthesis and proline oxidation)
- Culture, Protozoa**
Walton, B. C.; Shaw, J. J.; and Lainson, R., 1977, *J. Parasitol.*, v. 63 (6), 1118-1119
Leishmania brasiliensis brasiliensis, in vitro cultivation
- Culture, Protozoa**
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Plasmodium berghei, in vitro formation of ookinetes
- Culture, Protozoa**
Williams, S. G.; and Richards, W. H. G., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (2), 169-178
Plasmodium berghei, techniques for preparation and culture of leucocyte-free blood-dilution cultures
- Culture, Protozoa**
Williamson, J.; and Scott-Finnigan, T. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 1-2 [Demonstration]
Trypanosoma congolense, in vitro testing of antiviral and antitumor compounds with possible trypanicidal effects, probable RNA inhibition
- Culture, Protozoa**
Wilson, R. G., 1976, *Parasitology*, v. 73 (3), 283-286
Eimeria tenella, short-term application of 6 drugs in tissue culture, evaluation of coccidiocidal vs. coccidiostatic effect, necessity of monitoring technique to confirm drug withdrawal, importance of realistic level of drug dose

Culture, Protozoa

- Wolf, K.; and Markiw, M. E., 1976, *J. Protozool.*, v. 23 (3), 425-427
Myxosoma cerebralis, in vitro sporulation, first report of culture of a myxosporidan

Culture, Protozoa

- Wong, M. M.; Karr, S. L., jr.; and Chow, C. K., *J. Parasitol.*, v. 63 (5), 872-878
Naegleria fowleri maintained in vitro, changes in virulence

Culture, Protozoa

- Wosu, L. O., 1977, *Vet. Microbiol.*, v. 2 (1), 89-93
Tritrichomonas foetus, simplified medium for cultivation, rapid technique for obtaining pure cultures without sub-cultivation

Culture, Protozoa

- Yoshida, N., 1975, *J. Protozool.*, v. 22 (1), 128-130
Trypanosoma cruzi, macromolecule-free partially defined medium allowing prolonged cultivation by serial transfers and growth comparable to that obtained in more complex media

Culture, Tissue

- Banerjee, K.; Guru, P. Y.; and Dhanda, V., 1977, *Indian J. Med. Research*, v. 66 (4), 530-536

Haemaphysalis spinigera, attempts to grow various arboviruses in cell cultures derived from tick tissue; best results with viruses known or thought to be tick transmitted

Culture, Tissue

- Bhat, U. K. M.; and Yunker, C. E., 1977, *J. Parasitol.*, v. 63 (6), 1092-1098
Dermacentor parumapertus, establishment and characterization of diploid cell line

Culture, Tissue

- Brooks, M. A., 1976, *Invert. Tissue Cult. Research Applic. (Maramorosch)*, 181-199
 parasite transmission, applications of insect tissue culture, review and prospects

Culture, Tissue

- Guru, P. Y.; Dhanda, V.; and Gupta, N. P., 1976, *Indian J. Med. Research*, v. 64 (7), 1041-1045
 technique for preparing cell cultures from developing adult tissues of *Haemaphysalis spinigera*, *H. obesa*, and *Rhipicephalus sanguineus*

Culture, Tissue

- Heyneman, D., 1976, *Invert. Tissue Cult. Research Applic. (Maramorosch)*, 57-60
 snail tissue culture, applications in parasitology, brief review

Culture, Tissue

- Kaufman, W. R.; and Barnett, S. F., 1977, *Exper. Parasitol.*, v. 42 (1), 106-114
Dermacentor andersoni, culture of whole salivary glands

Culture, Tissue

- Pudney, M.; Varma, M. G. R.; and Leake, C. J., 1973, *J. Med. Entom.*, v. 10 (5), 493-496
Boophilus microplus, culture of embryonic cells

Culture, Tissue

- Rehacek, J., 1976, *Invert. Tissue Culture, Applications Med., Biol., and Agric. (Kurstaik and Maramorosch)*, 21-33
 tick cell and tissue culture in arbovirus investigations, review

Culture, Tissue

- Rehacek, J.; and Fischer, R. G., 1971, *J. Med. Entom.*, v. 8 (1), 66-67
Ctenocephalides felis larvae, primary tissue cultures

Culture, Trematoda

- Basch, P. F.; and DiConza, J. J., 1977, *J. Parasitol.*, v. 63 (2), 245-249
Schistosoma mansoni, in vitro development compared to in vivo, presence of living *Biomphalaria glabrata* cells indispensable for proper development, cultured cercariae were water-sensitive, gave no cercarial hüllen reaction, appeared to lack surface glyco-calyx, and were not infective to mice or hamsters

Culture, Trematoda

- Bayne, C. J., 1976, *Invert. Tissue Cult. Research Applic. (Maramorosch)*, 61-74
Schistosoma mansoni, research with in vitro culture of molluscan organs, review

Culture, Trematoda

- Capron, A.; et al., 1973, *Path. Biol.*, v. 21 (10), 1079-1084
 lethal factor obtained from human sera infected with *Schistosoma mansoni* or *S. haematobium* demonstrated lethal action on schistosomula in culture, significant correlation between lethal factor and in vivo and in vitro tests for delayed hypersensitivity

Culture, Trematoda

- Coles, G. C., 1975, *J. Helminth.*, v. 49 (3), 205-209
Schistosoma mansoni schistosomula, 3-week-old, and adult worms, activity of 6 clinical and 6 experimental schistosomicides in vitro, concluded that meaningful screening for potential schistosomicides cannot at present be carried out in vitro

Culture, Trematoda

- Cornish, R. A.; and Bryant, C., 1976, *Internat. J. Parasitol.*, v. 6 (5), 387-392
Fasciola hepatica, levels of metabolic intermediates and end products after 24 and 48 hrs in Hedon-Fleig salt solution with added glucose compared with levels obtained immediately on removal from host, implications for metabolic regulation, concluded that for at least 48 hrs in vitro energy metabolism is not adversely affected

Culture, Trematoda

- Cornish, R. A.; and Bryant, C., 1976, *Internat. J. Parasitol.*, v. 6 (5), 393-398
Fasciola hepatica maintained in vitro, effects of rafoxanide, nitroscanate, and mebendazole on oxidative pathways

- Culture, Trematoda
 Cowper, S. G., 1974, Ann. Trop. Med. and Parasitol., v. 68 (4), 415-425
 continuous flow apparatus for in vitro maintenance: *Schistosoma mansoni*, *S. haematobium*, survival time, carbohydrate metabolism; *Plasmodium knowlesi*, morphology and carbohydrate metabolism; preliminary attempts to cultivate *Trypanosoma vivax* and *Babesia canis*
- Culture, Trematoda
 Fu, H.-M.; Chow, K.; and Chiu, J.-K., 1976, Internat. J. Zoonoses, v. 3 (2), 105-113
Schistosoma japonicum adults and schistosomula, in vitro culture with various sera and media, survival; development and morphological changes of schistosomula
- Culture, Trematoda
 Fujino, T.; et al., 1977, J. Helminth., v. 51 (2), 125-129
Microphalloides japonicus metacercariae, cultivation in vitro to gravid adults in various media, comparison with in vivo development
- Culture, Trematoda
 Hanna, R. E. B.; Baalawy, S. S.; and Jura, W., 1975, Research Vet. Sc., v. 19 (1), 96-97
Fasciola gigantica, development of in vitro techniques to study the invasive process, conditions necessary for excystment and penetration of mouse gut, maintenance of larvae on spleen cell monolayers
- Culture, Trematoda
 Hanna, R. E. B.; and Jura, W., 1976, Research Vet. Sc., v. 21 (2), 244-246
Fasciola gigantica juveniles, in vitro maintenance, no significant growth but no physiological damage for at least 6 weeks, subsequent infectivity for mice, more flukes established from intraperitoneal injection of juveniles than oral infection of metacercariae, mouse as probable model host
- Culture, Trematoda
 Hansen, E. L., 1976, Invert. Tissue Cult. Research Applic. (Maramorosch), 75-99
Schistosoma mansoni, development and maintenance of a cell line from embryos of *Biomphalaria glabrata* for future study of parasite growth
- Culture, Trematoda
 Hansen, E. L., 1976, Invert. Tissue Culture, Applications Med., Biol., and Agric. (Kurstaik and Maramorosch), 87-97
 application of tissue culture of *Biomphalaria glabrata* to culture of larval *Schistosoma mansoni*, review
- Culture, Trematoda
 Harada, T., 1971, Nettarei Igaku (Trop. Med.), v. 12 (4), 219-233
Schistosoma japonicum, viability and hatchability under various conditions of media, possible infection routes and development and survival in *Oncomelania nosophora* intermediate snail hosts
- Culture, Trematoda
 Lehner, R. P., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 285 [Demonstration]
Fasciola hepatica, continuous-flow culture system for axenic maintenance of adult worms
- Culture, Trematoda
 Lo, C. T.; and Cross, J. H., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (2), 252-257
Fasciolopsis buski, in vitro cultivation using several artificial media
- Culture, Trematoda
 McLaren, D. J.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 292 [Demonstration]
Schistosoma mansoni, freeze fracture technique used to compare tegumental membranes of schistosomula recovered from hosts at various times up to 5 days with those maintained in culture for a comparable period; results suggest that tegumental membranes of cultured worms turn over more rapidly than those of worms in vivo and therefore question use of cultured worms for studies on membranes
- Culture, Trematoda
 Mitchell, J. S., 1977, Parasitology, v. 75 (2), xviii [Abstract]
Cotylurus, in vitro culture from metacercariae to egg-producing adults, morphological comparison with in vivo worms
- Culture, Trematoda
 Osuna Carrillo de Albornoz, A.; and Guevara Pozo, D., 1973, Rev. Iber. Parasitol., v. 33 (4), 661
Fasciola hepatica, preliminary note on culture from excysted metacercaria
- Culture, Trematoda
 Osuna Carrillo de Albornoz, A.; and Guevara Pozo, D., 1974, Rev. Iber. Parasitol., v. 34 (1-2), 137-140
Fasciola hepatica metacercariae cultured 54 days, description of medium; body growth, development of genital primordia and intestinal branches
- Culture, Trematoda
 Schiller, E. L.; et al., 1975, J. Parasitol., v. 61 (3), 385-389
Schistosoma mansoni, adults cultured in vitro under aerobic vs. anaerobic conditions, no differences in glucose utilization and lactic acid production, virtually no egg-laying in absence of oxygen
- Culture, Trematoda
 Shaw, J. R., 1977, Exper. Parasitol., v. 41 (1), 54-65
Schistosoma mansoni, effect of pairing females from single sex infections with males under in vitro conditions, subsequent development and ultrastructural changes in reproductive system

Culture, Trematoda

- Shaw, J. R.; and Erasmus, D. A., 1977, Parasitology, v. 75 (1), 101-109
Schistosoma mansoni, technique for in vitro maintenance of mature worms assessed by criteria in general use as well as by more critical analysis in terms of ultrastructure (particularly of female reproductive system), comparison between changes usually associated with in vitro culture and those induced by action of Astiban, differential cell death associated with both

Culture, Trematoda

- Siddiqui, M. A.; and Attia, M. S., 1973, Riv. Parassitol., Roma, v. 34 (4), 277-280
Paramphistomum cervi, Gastrothylax crumenifer, in vitro maintenance for about 36 hours, water content, lipid content, nitrogen and protein estimation

Culture, Trematoda

- Smith, M.; Clegg, J. A.; and Webbe, G., 1976, Ann. Trop. Med. and Parasitol., v. 70 (1), 101-107
Schistosoma haematobium, in vitro development in culture system used for S. mansoni, compared with development in Mesocricetus auratus and with development of S. mansoni in vitro

Culture, Trematoda

- Smith, M.; and Webbe, G., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 9-10 [Demonstration]
Schistosoma haematobium and S. mansoni in vitro, anti-sera of both species showed little or no detectable activity against each other suggesting no cross-immunity between the two

Culture, Trematoda

- Tiba, Y.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 72 [Letter]
Schistosoma mansoni, technique for culture of large numbers of viable schistosomula for use in biological, biochemical and chemotherapeutic studies, capacity to develop in vivo tested in mice

Culture, Trematoda

- Weller, T. H., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 208-216
Schistosoma mansoni, Craig Lecture before Am. Soc. Trop. Med. and Hyg.: cultivation in vitro; detection of antigenic materials elaborated in vivo; epidemiology and control

Culture, Trematoda

- Yasuraoka, K.; et al., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 197
Schistosoma japonicum, Philippine strain, culture from cercarial stage, effects of immune rabbit and human sera in vitro, preliminary report

Cuticle. [See also Integument; Parasite surfaces; Tegument]

Cuticle

- Banaja, A. A.; James, J. L.; and Riley, J., 1976, Parasitology, v. 73 (2), xxix [Abstract]
pentastomids, tegumental cuticular cells, osmoregulatory function

Cuticle

- Banaja, A. A.; James, J. L.; and Riley, J., 1977, Internat. J. Parasitol., v. 7 (1), 27-40
Reighardia sternali, Porocephalus crotali, Armillifer moniliformis, tegumental chloride cells (previously termed cuticular cells), ultrastructure, osmoregulatory function

Cuticle

- Bird, A. F., 1976, Organ. Nematodes (Croll), 107-137
skeletal structures in nematodes (copulatory spicules, cuticle, egg shell): structure, chemical composition, ontogeny, function, review

Cuticle

- Bogoiavlenskii, Iu. K.; and Demchenko, A. N., 1973, Parazity Zhivot. i Rasten., Akad. Nauk Moldavsk. SSR (9), 281-285
Raphidascaris acus, structure of cuticle, hypodermis, and somatic musculature

Cuticle

- Bogoiavlenskii, Iu. K.; and Koroleva, N. A., 1969, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 20, 21-29
Ascaridia galli, Hystrichis tricolor, comparison of micromorphology and histochemistry of hypodermal-muscular sac during pre-imaginal development

Cuticle

- Bonner, T. P.; Evans, K.; and Kline, L., 1976, Internat. J. Parasitol., v. 6 (6), 473-477
Nippostrongylus brasiliensis, role of gene expression in regulating cuticle formation during second molt, results strongly suggest that messenger RNA specific for molting was synthesized at 90 hours

Cuticle

- Brzosko, W. J.; and Gancarz, Z., 1970, Med. Dosw. i Mikrobiol., v. 22 (1), 91-94
Trichinella spiralis, electron microscopy of larval cuticular antigenic structure

Cuticle

- Clark, T. B.; and Brandl, D. G., 1976, J. Invert. Path., v. 28 (3), 341-349
Tetrahymena infection of Aedes sierrensis larvae (nat. and exper.), melanized spots on cuticle were sites of invasion or attempted invasion, invasion sites were capped by hemispherical membranes or cysts vacated by invading ciliates, factors such as host activity, host age, and cuticle thickness limited successful infection: near Kings River, Fresno County, California

Cuticle

- Evans, H. J.; Sullivan, C. E.; and Piez, K. A., 1976, Biochemistry, Washington, v. 15 (7), 1435-1439; Correction (11), 2500
Ascaris lumbricoides, cuticle collagen, resolution into three chain types by chromatography on phosphocellulose

Cuticle

Fujimoto, D., 1975, J. Biochem., Tokyo, v. 78 (5), 905-909

Ascaris lumbricoides, extent of hydrolysis of *Ascaris* cuticle collagen by bacterial collagenase under various conditions, amino acid composition of collagenase digests, results suggest CaCl_2 necessary for hydrolysis of certain regions in molecule of *Ascaris* collagen not present in mammalian collagens

Cuticle

Heyneman, D.; and Umathevy, T., 1966, Med. J. Malaya, v. 20 (4), 353-354

differentiation of *Plagiorchis* spp. cercariae using the patterns of their argentophilic cuticular structures

Cuticle

Hominick, W. M., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 383 [Demonstration]

Thelastoma sp., bacterial infection of cuticle of pinworms inhabiting hindgut of laboratory reared *Periplaneta americana*, bacterial preference for *Thelastoma* sp. over *Hammerschmidtella diesingi* possibly related to structure of cuticle

Cuticle

Kannupandi, T., 1976, Indian J. Exper. Biol., v. 14 (1), 57-58

Pennella elegans, chemical composition and mode of stabilization of cuticle protein, disulphide linkage, possible function in protection from host enzymes

Cuticle

Kannupandi, T., 1976, Science and Culture, v. 42 (10), 523-524

Pennella elegans, cuticular respiration

Cuticle

Karuppaswamy, S. A., 1977, Experientia, v. 33 (6), 735-736

Raillietiella gowrii, occurrence of β -chitin in cuticle as opposed to α -chitin found in arthropod cuticle, suggests that *Pentastomida* may be considered independent phylum

Cuticle

Kumar, P.; and Somadder, K., 1976, Indian J. Entom., v. 36 (4), 1974, 355-358

Haematopinus suis, *Pediculus humanus*, and *Linognathus vituli*, hatching organ, description and mechanism

Cuticle

Leventhal, R.; and Soulsby, E. J. L., 1977, Exper. Parasitol., v. 41 (2), 423-431

Ascaris suum early larval stages, cuticular binding of third component of complement

Cuticle

Lim, B. L., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 376-381

Angiostrongylus cantonensis, redescription, morphologic comparisons with *A. malaysiensis* and with *A. cantonensis* from Formosa: East Coast of Peninsular Malaysia

Cuticle

Martinez Gomez, F.; and Hernandez Rodriguez, S., 1973, Rev. Iber. Parasitol., v. 33 (2-3), 295-313

Ostertagia circumcincta, ultrastructure of body wall and intestinal epithelium

Cuticle

Molfi, A., 1976, Arq. Biol. e Tecn., v. 19 (1), 9-14

Eurytrema coelomaticum, histochemistry of polysaccharides, cuticle, subcuticular cells, parenchyma and uterine secretion

Cuticle

Mukerji, K.; et al., 1976, Indian J. Med. Research, v. 64 (11), 1611-1619

Ascaris lumbricoides var. *hominis*, purification and protein properties of trypsin inhibitor located in muscular and cuticular layers of parasite, speculations on immunologic role

Cuticle

Neilson, J. T. M., 1975, J. Parasitol., v. 61 (5), 785-793

Dipetalonema viteae, adults, soluble somatic extracts, extracts of solubilized cuticles and membranes, fractionation by Sephadex column chromatography and polyacrylamide gel electrophoresis, constituents of each preparation compared by immunodiffusion and immunoelectrophoresis

Cuticle

Neville, A. C.; Parry, D. A. D.; and Woodhead-Galloway, J., 1976, J. Cell Sc., v. 21 (1), 73-82

Xenopsylla cheopsis, chitin crystallites in cuticle

Cuticle

Pavlov, A. V.; and Koshkina, L. A., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 106-109

ascarids, chicks, increased ATP-ase and sodium and chloride ions in body fluid of worms from hosts vaccinated before infection, possible relationships to cuticle permeability and transport system

Cuticle

Poinar, G. O., jr.; and Hess, R., 1977, Exper. Parasitol., v. 42 (1), 27-33

Romanomermis culicivorax, parasitic juveniles, morphological evidence of possible transport system for transcuticular uptake of nutrients

Cuticle

Rubtsov, I. A., 1966, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 17, 128-156

ontogenesis of mermithids, illustrated description of structure of body, cuticle, amphids, longitudinal fields, stichosome, osmosome, trophosome and reproductive organs; technique of preparing material

Cuticle

Shava, F. H. M.; and Lewis, J. W., 1977, Parasitology, v. 75 (2), xxv-xxvi [Abstract]

Syphacia stroma, *S. obvelata*, *S. mesocriceti*, differences in general body surface, lip regions, eggs, and mamelons, scanning electron microscopy

Cuticle

Shishova-Kasatochkina, O. A.; and Pavlov, A. V., 1969, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 20, 195-204

factor influencing resistance of helminths to host proteolytic enzymes (enzyme inhibitors secreted by helminths, chemical structure of worm cuticle, specificity of host proteolytic enzymes and structure and composition of protein molecules in helminths), review

Cuticle

Sommerville, R. I.; and Davey, K. G., 1976, Internat. J. Parasitol., v. 6 (5), 433-439

Anisakis sp. larva, cuticle formation and ecdysis in vitro, development restarted by physico-chemical stimuli (effect of different media, carbon dioxide, storage, temperature), feeding does not occur until after moulting

Cuticle

Specian, R. D.; and Ubelaker, J. E., 1976, Proc. Helminth. Soc. Washington, v. 43 (1), 59-65

Seuratium cancellatum, redescription, cephalic morphology, external cuticular modifications, scanning electron microscopy

Cuticle

Trainer, J. E., jr.; Self, J. T.; and Richter, K. M., 1975, J. Parasitol., v. 61 (4), 753-758

Porocephalus crotali, cuticle, ultrastructure, function, phylogenetic implications (clearly pro-arthropodan, uniqueness supports status of independent phylum)

Cuticle

Vincent, A. L.; Ash, L. R.; and Frommes, S. P., 1975, J. Parasitol., v. 61 (3), 499-512

Brugia malayi, adults in pulmonary arteries of male Meriones unguiculatus, ultrastructure (cuticle, chords and intrachordal hypodermis, somatic musculature, basal laminae and pseudocoel, alimentary tract, reproductive systems)

Cuticle

Vincent, A. L.; Portaro, J. K.; and Ash, L. R., 1975, J. Parasitol., v. 61 (3), 567-570

Brugia pahangi, midbody ultrastructure of cuticle, hypodermis, and somatic musculature of adults, compared to B. malayi

Cyprus

Polydorou, K., 1977, Trop. Animal Health and Prod., v. 9 (3), 141-146

national anti-echinococcosis campaign, public education, control of dogs, control of slaughter; almost total elimination in food animals born since initiation of campaign: Cyprus

Cysts

Andersen, K., 1976, Fauna, Oslo, v. 29 (1), 1-20

helminth adaptation to life in vertebrate intestine, cysts, attachment organs, structure of tegument, immune response, site selection, evolution, extensive review

Cysts

Asanji, M. F.; and Williams, M. O., 1975, Ztschr. Parasitenk., v. 47 (2), 151-163

trematode metacercarial excystment, enzymes, various non-enzymic media, temperature, pH, osmotic pressure, oxidation-reduction potential, ox bile as factors

Cysts

Barrett, R. A.; and Alexander, M., 1977, Applied and Environment. Microbiol., v. 33 (3), 670-674

Acanthamoeba, susceptibility of cysts to microbial and enzymatic degradation in soil and in vitro

Cysts

Basson, P. A.; McCully, R. M.; and Bigalke, R. D., 1970, Onderstepoort J. Vet. Research, v. 37 (2), 105-126

Besnoitia besnoiti, development and pathology of bovine strains in cattle (exper.) and of bovine and antelope strains in rabbits (exper.), macroscopic and microscopic lesions, chronic and acute infections

Cysts

Bergmann, V.; and Kinder, E., 1975, Monatsh. Vet.-Med., v. 30 (20), 772-774

Sarcocystis tenella, sheep, differences in cyst wall structure, electron microscopy, thin- and thick-walled microcysts, macrocysts, possibly two species involved

Cysts

Blair, D., 1976, J. Helminth., v. 50 (2), 125-132

Apatemon gracilis, life cycle completed in laboratory, cercaria redescribed, development of metacercariae in various fishes (host and location specificity, exper. infections not realized in some fish species which were naturally infected), excystation of metacercaria

Cysts

Bortoletti, G.; and Ferretti, G., 1973, Riv. Parasitol., Roma, v. 34 (2), 89-110

Echinococcus granulosus, electron microscopy: cyst wall; brood capsules; protoscolex tegument; brood capsule formation; protoscolex formation; comparison with Hydatigera taeniaeformis larval forms

Cysts

Bradbury, P. C., 1974, J. Protozool., v. 21 (1), 112-120

Hyalophysa chattoni, phoront, fine structure

Cysts

Brugerolle, G., 1973, J. Protozool., v. 20 (5), 574-585

Chilomastix aulastomi, trophozoite, cyst, ultrastructure

Cysts

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- Cysts
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- Cysts
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- Cysts
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Tetrahymena infection of Aedes sierrensis larvae (nat. and exper.), melanized spots on cuticle were sites of invasion or attempted invasion, invasion sites were capped by hemispherical membranes or cysts vacated by invading ciliates, factors such as host activity, host age, and cuticle thickness limited successful infection: near Kings River, Fresno County, California
- Cysts
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- Cysts
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- Cysts
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- Cysts
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- Cysts
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- Cysts
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- Cysts
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Sarcocystis [sp.] from *Dasypus novemcinctus* (tongue, skeletal muscle), electron micrographs and histochemistry of cysts

Cysts

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Hartmanella culbertsoni, cyclic nucleotide phosphodiesterase activity in cells and culture medium, cells starving or differentiating into cysts

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Echinococcus granulosus, swine, incidence in slaughter houses and individual farms, fertility of cysts in relation to size, highest incidence in liver: Poland

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 analysis of analogy between *Toxoplasma* and Hepatozoon life cycles; importance and role of cyst formation in the Coccidia

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- Lo, S.; et al., 1975, J. Parasitol., v. 61 (3), 413-417
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 coccidia, invasion of host cells, symposium presentation: general considerations; excystation; invasion of cells by *Eimeria* in vivo; host reactions to invasion by *Eimeria*; invasion of cells by *Eimeria* sporozoites in vitro; factors affecting invasion of cells by sporozoites; invasion of cultured cells by merozoites; invasion of cells by *Toxoplasma*

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Toxoplasma gondii cysts in *Mastomys natalensis* (brain) (exper.), sulfamethoxyypyrazine + pyrimethamine, no endodyogeny observed on treated cysts, effects on cyst ultrastructure, scanning and transmission electron microscopy

Cysts

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Sarcocystis sui hominis, pigs (exper.), cyst fine structure and development in muscle fibre, nervous and connective tissue cells, light and electron microscopy, concluded that development of *S. sui hominis* is somewhat quicker than other sarcosporidia

Cysts

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Perez, C.; and Luengo, J., 1969, Bol. Chileno Parasitol., v. 24 (3-4), 163

Trichinella spiralis, nine larvae demonstrated in single cyst of pig muscle

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Toxoplasma gondii, avirulent strain made virulent by mouse passage and then attenuated by storage, comparison of cyst-forming abilities in mice and rabbits, rabbits infected with attenuated parasites survived challenge with virulent parasites

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Cercaria vaullegeardi, redescription; possible functions of caudal cysts and appendages

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- Cytology, Protozoa
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- Cytology, Protozoa
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- Cytology, Protozoa
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- Cytology, Protozoa
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ecological analysis of helminth fauna of small mammals in different biotopes: Bulgaria; Czechoslovakia

- DNA. See Nucleic acids.
- Deafness. See Ear.
- Definitions. See Terminology.
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- Dermal tests. See Immunity, Skin tests.
- Dermatitis. [See also Skin]
- Dermatitis
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contagious parasitic dermatoses in small animal practice, review
- Dermatitis, Arthropoda
Baker, K. P., 1977, Irish Vet. J., v. 31 (10), 141-147
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
Goetz, H.; and Patiri, C., 1975, Med. Klin., Berlin, v. 70 (34), 1332-1339
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- Dermatitis, Arthropoda
Hidano, A.; and Asanuma, K., 1976, Arch. Dermat., Chicago, v. 112 (6), 882-883
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- Dermatitis, Arthropoda
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- Dermatitis, Arthropoda
Nadchatram, M.; and Ramalingam, S., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (1), 150 [Demonstration]
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- Dermatitis, Arthropoda**
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- Dermatitis, Arthropoda**
Sutherst, R. W.; and Moorhouse, D. E., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (1), 82-83
Ixodes holocyclus, larval ticks as cause of acute "scrub-itch" dermatitis with considerable portion of human population sensitized to the tick bite: southeast Queensland, Australia
- Dermatitis, Nematoda**
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Pelodera strongyloides, dermatitis in sheep: northern Illinois
- Dermatitis, Nematoda**
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Pelodera strongyloides dermatitis, horse, case history, thiabendazole, good results: Iowa
- Dermatitis, Nematoda**
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Onchocerca volvulus, humans with severe onchocercal dermatitis, ultrastructure of microfilariae and host skin tissues before and after diethylcarbamazine treatment: Cameroon
- Dermatitis, Nematoda**
Ueno, H.; Chibana, T.; and Yamashiro, E., 1977, Vet. Parasitol., v. 3 (1), 41-48
Stephanofilaria okinawaensis, cattle, derma-titis of teats, clinical and histopathologi-cal observations, relationship to dermatitis on muzzle: Nansei Islands, Okinawa Prefec-ture, Japan
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- Dermatitis, Trematoda**
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- Dermatitis, Trematoda**
Lyaruu, D. M.; et al., 1977, Trop. and Geogr. Med., v. 29 (2), 207 [Abstract]
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- Dermatitis, Trematoda**
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- Dermatitis, Trematoda**
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Trichobilharzia [sp.], cercariae shed from Austropeplea ollula implicated as cause of dermatitis in paddy field workers after similar infection experimentally proven with humans: Saitama Prefecture, Japan
- Dermatitis, Trematoda**
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Gigantobilharzia sturniae cercariae shed from Polypylis hemisphaerula implicated as cause of dermatitis in paddy field workers after similar infection experimentally proven with humans: north-western Saitama Prefecture
- Dermatitis, Trematoda**
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- Dermatitis, Trematoda**
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Schistosoma mansoni, dermatologic manifesta-tions, clinical review, case reports

Dermatitis, Trematoda

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Desiccation. [See also Humidity; Water]

Desiccation

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Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, abutting allopatric distributions, water balance of nymphs and adults in relation to distribution: South Australia

Desiccation

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Desiccation

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Amblyomma americanum, *A. maculatum*, *Dermacentor variabilis*, critical equilibrium humidity, effects of low and high humidities on rates of weight change, total water content, hemolymph volume, and humidity preference, correlation with geographical distribution and resistance to dehydration

Desiccation

Kemp, D. H.; et al., 1976, Parasitology, v. 73 (1), 123-136

Boophilus microplus on British breed cattle with different resistance levels, growth and attachment behaviour of larvae, desiccation of larvae in environment of host skin, movement to and accumulation in favored sites

Desiccation

McMullen, H. L.; Sauer, J. R.; and Burton, R. L., 1976, J. Insect Physiol., v. 22 (9), 1281-1285

Amblyomma americanum, mouth confirmed as site of water vapor absorption, movement of chloride ions traced in desiccated and rehydrated ticks, suggests possible role of salivary glands in water vapor uptake

Desiccation

Norval, R. A. I., 1977, J. Parasitol., v. 63 (4), 740-747

Amblyomma hebraeum, survival and rate of development in relation to temperature and humidity under laboratory and field conditions, longevity of unfed ticks, ecological implications of results

Desiccation

Rechav, Y.; and von Maltzahn, H. C., 1977, Ann. Entom. Soc. Am., v. 70 (5), 768-770

Boophilus decoloratus, *Rhipicephalus evertsi evertsi*, water loss from eggs at various temperatures and relative humidities and correlation between weight loss, hatching, and saturation deficits

Desiccation

Rondelaud, D.; and Morel-Vareille, C., [1976], Ann. Parasitol., v. 50 (5), 1975, 603-616

Fasciola hepatica-infected and uninfected *Lymnaea truncatula*, vertical and horizontal distribution in two dry natural habitats (drainage ditches, bovine footprints), effect of degree of development of parasites

Desiccation

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Strongyloides papillosus larvae, sheep and rabbit strains, responses to light of various intensities, desiccation and temperature; pattern of migration from water by dense group of larvae; reaction to various chemicals; destruction by fungi; no differences between strains

Desiccation

Todd, K. S., jr.; Levine, N. D.; and Boatman, P. A., 1976, J. Parasitol., v. 62 (2), 247-249

Haemonchus contortus, survival of desiccated and undesiccated infective larvae at various constant temperatures

Desiccation

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Cooperia punctata, effects of repeated desiccation and rehydration on survival of infective larvae

Desiccation

Tripathi, J. C., 1977, Indian J. Animal Sc., v. 47 (11), 739-742

Haemonchus contortus, effect of different temperatures on infective larvae in water and in faecal medium; desiccation of infective larvae in diffused light and sunlight compared

Desoxyribonucleic acid. See Nucleic acids.

Development. [See also Embryology; Growth; Life cycle]

Development

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phylogeny and ontogeny of man-helminth-animal relationships

Development, Acanthocephala

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Acanthosentis sp. (identified in footnote as *A. oligospinus*), egg envelopes of acanthor, layers, histochemistry, permeability, phase-contrast microscopy

- Development, Acanthocephala
Asaolu, S. O., 1976, *Parasitology*, v. 73 (2), xxviii [Abstract]
Moniliformis dubius, ovarian ball development
- Development, Acanthocephala
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Moniliformis dubius, morphology and development of ovarian balls, oogenesis, rat (exper.)
- Development, Acanthocephala
Buckner, S. C.; and Nickol, B. B., 1975, *J. Parasitol.*, v. 61 (6), 991-995
comparison of Moniliformis clarki and M. moniliformis reflects distinctness of species, definitive and intermediate host specificity, laboratory life cycles, failure to hybridize
- Development, Acanthocephala
Crompton, D. W. T.; Arnold, S.; and Walters, D. E., 1976, *Parasitology*, v. 73 (1), 65-72
Moniliformis dubius, unfertilized and fertilized females, average numbers and sizes of ovarian balls during course of infection in rats
- Development, Acanthocephala
Hine, P. M., 1977, *J. Roy. Soc. N. Zealand*, v. 7 (1), 51-57
Acanthocephalus galaxii n. sp., larval development
- Development, Acanthocephala
Muzzall, P. M.; and Rabalais, F. C., 1975, *Proc. Helminth. Soc. Washington*, v. 42 (1), 35-38
Acanthocephalus jacksoni cystacanths, sex, position, and orientation in *Lirceus lineatus*, host pigmentation, sex, size, and gut content, possible sterility in host females; precocious development and marked sexual dimorphism in cystacanths: Jackson Cutoff
- Development, Acanthocephala
Parshad, V. R.; and Guraya, S. S., 1977, *Parasitology*, v. 74 (3), 243-253
Centrorhynchus corvi, ovarian balls, morphology and histochemistry
- Development, Acanthocephala
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Acanthocephalus clavula, life cycle and development
Asellus meridianus (exper.)
bullhead (exper.)
- Development, Arthropoda
Baird, C. R., 1975, *Canad. J. Zool.*, v. 53 (12), 1788-1798
Cuterebra tenebrosa, laboratory rearing in *Neotoma cinerea*, egg and larval development: effect of larval photoperiod on incidence of pupal diapause (egg photoperiod had no effect), duration of larval development with evidence as to photoperiod-sensitive stage, sequence of gross morphological changes from puparium formation to eclosion, unsuccessful attempts to terminate pupal diapause via temperature or photoperiod manipulations
- Development, Arthropoda
Boctor, F. N.; and Kamel, M. Y., 1977, *Comp. Biochem. and Physiol.*, v. 56 (2B), 169-173
Dermacentor andersoni, free amino acid pools during embryogenesis and in newly hatched larvae, glutamate-pyruvate transaminase and glutamate-oxalacetate transaminase activity
- Development, Arthropoda
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Argasidae spp., *Ixodidae* spp., in vitro spermiogenesis
- Development, Arthropoda
Branagan, D., 1973, *Trop. Animal Health and Prod.*, v. 5 (3), 153-165
Rhipicephalus appendiculatus, survival and development of all 3 instars under quasi-natural conditions in Kenya
- Development, Arthropoda
Breev, K. A.; and Baratov, Sh., B., 1970, *Parazitologiya*, Leningrad, v. 4 (3), 241-249
Hypoderma lineatum sinense, incidence and intensity of infection, development in relation to temperature, climatic adaptation, differentiation from typical *H. lineatum*, yaks: eastern Pamir
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- Development, Cestoda
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- Development, Cestoda
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- Development, Protozoa
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Plasmodium berghei-infected rats (exper.), estimation of density of exo-erythrocytic (EEF) forms at different stages of infection and comparison with normal controls indicates that blood stage interferes with the development of EEF in liver parenchymal cells of infected animals
- Development, Protozoa
Hadani, A.; Kauffman, B.; and Barnett, S. F., 1975, *J. Protozool.*, v. 22 (3), 71A [Abstract]
Nuttallia danii, development in salivary glands of *Hyalomma excavatum*
- Development, Protozoa
Harmsen, R., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 364-373
Trypanosoma brucei, low survival rate in *Glossina pallidipes* interpreted as in part result of establishment barrier which is less active in young vs. older flies, peritrophic membrane appears unlikely to be establishment barrier, postulated adjustment period for trypanosomes in flies supported by evidence on temperature sensitivity of parasite enzymes
- Development, Protozoa
Haston, W. S., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 146 [Abstract]
Trypanosoma brucei, gradient diver technique used to measure oxygen uptake of culture forms for the purpose of studying metabolism of developmental stages
- Development, Protozoa
Heller, G., 1972, *Protistologica*, v. 8 (1), 43-51
Eimeria stiedae, structure and formation of conoid, rhoptries, and micronemes
- Development, Protozoa
Heller, G.; and Weise, R. W., 1973, *J. Protozool.*, v. 20 (1), 61-64
Gregarina sp. from *Udeopssylla nigra*, scanning electron microscopy, patterns of epicytic folds in old vs. young gamonts, relationship to motility and development
- Development, Protozoa
Hendricks, L. D., 1975, *J. Parasitol.*, v. 61 (3), 458-461
Hepatozoon griseisciuri, schizogonic development in the gray squirrel, distribution and concentration of stages throughout host reticuloendothelial system, wide divergence in number of merozoites, comparison of in vivo and in vitro forms
- Development, Protozoa
Hendricks, L. D.; and Fayer, R., 1973, *J. Protozool.*, v. 20 (5), 550-554
Hepatozoon griseisciuri, development in cultured squirrel cells
- Development, Protozoa
Heydorn, A.-O.; and Gestrich, R., 1976, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 89 (1), 1-5
Sarcocystis ovis, developmental stages in lambs, lamb muscles infectious for experimental dogs
- Development, Protozoa
Heydorn, A.-O.; Gestrich, R.; and Ipczynski, V., 1975, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 88 (23), 449-453
small race of *Isospora bigemina*, life cycle, developmental stages, intestine of dog
- Development, Protozoa
Hildebrand, H. F.; and Vinckier, D., 1975, *J. Protozool.*, v. 22 (2), 200-213
Didymophyes gigantea, morphology during syzygy and growth and development of trophozoite, locomotion
- Development, Protozoa
Hommel, M., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 3 [Demonstration]
Trypanosoma evotomys kudickei, developmental behavior of trypanosomes in culture
- Development, Protozoa
Hommel, M.; Peters, W.; and Chance, M. L., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 9-10 [Demonstration]
Leishmania braziliensis braziliensis, growth and development in immunosuppressed hamsters and nude mice, pathology
- Development, Protozoa
Howells, R. E.; and Chiari, C. A., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (4), 435-448
Trypanosoma cruzi, 2 strains, investigation of differences between slender and stout trypomastigotes, infectivity of different forms to mice, relationship between inoculum size, length of pre-patent period, and course of parasitemia, influence of whole-body X-irradiation and splenectomy of host on course of infection
- Development, Protozoa
Howells, R. E.; and Davies, E. E., 1971, *Ann. Trop. Med. and Parasitol.*, v. 65 (4), 451-459
Plasmodium berghei oocysts, sequence of post-meiotic nuclear divisions, nuclear changes may be incorporated into general pattern of oocyst differentiation or cytokinesis
- Development, Protozoa
Hsu, K. Y., 1971, *Nettai Igaku (Trop. Med.)*, v. 13 (2), 73-85
Toxoplasma gondii cultures using HeLa cells as host cell line, development in the presence of enzymes, on pretreatment with sulfisoxazole or sulfathiazole, or on addition of infected human serum to culture

Development, Protozoa

- Janovy, J., jr.; et al., 1975, Proc. Oklahoma Acad. Sc., v. 55, 130-135
Herpetomonas megaseliae, cytodifferentiation in culture, changes in population composition (promastigotes, paramastigotes, opisthomastigotes), physiological changes (organisms became increasingly cyanide-sensitive, anaerobic stimulation of glucose uptake was doubled, and anaerobic acid production was halved as makeup of culture population shifted), differentiation was postulated to involve metabolic shift from anaerobic to aerobic metabolism

Development, Protozoa

- Janovy, J., jr.; Lee, K. W.; and Brumbaugh, J. A., 1974, J. Protozool., v. 21 (1), 53-59
Herpetomonas megaseliae, ultrastructure of both undifferentiated (promastigote and paramastigote) and differentiated (opisthomastigote) forms

Development, Protozoa

- Jeffers, T. K., 1975, J. Parasitol., v. 61 (6), 1083-1090
Eimeria tenella, attempt to genetically alter developmental rate in order to elucidate mechanisms controlling length of prepatent period, selection for precociousness was accompanied by attenuation, lack of pathogenicity apparently due to defective second-generation schizogony

Development, Protozoa

- Jeffers, T. K., 1976, Ztschr. Parasitenk., v. 50 (3), 251-255
Eimeria tenella, decoquinate-sensitive, precocious strain crossed with decoquinate-resistant, normally developing strain, genetic recombination

Development, Protozoa

- Jordan, H. B., 1975, J. Protozool., v. 22 (2), 241-244
Plasmodium floridense, differential course of infection in *Anolis carolinensis* vs. *Sceloporus undulatus*, duration and intensity of parasitemia, % frequency of merozoite means during periods of acute rise and decline, natural and acquired immunity

Development, Protozoa

- Jung, A.; et al., 1975, Tropenmed. u. Parasitol., v. 26 (1), 27-34
Plasmodium vinckei, DNA, RNA, and lipid synthesis, specific activity of glucose-6-phosphate dehydrogenase and glucose-6-phosphatase in parasite developmental stages

Development, Protozoa

- Khan, R. A., 1975, J. Parasitol., v. 61 (3), 449-457
Leucocytozoon ziemanni, development in simuliid vectors and in saw-whet owls, gametogony and sporogony, schizogony, sequential appearance of hepatic and megaloschizonts and associated round and fusiform gametocytes

Development, Protozoa

- Knight, S. A., 1976, J. Parasitol., v. 62 (4), 515-522
Herpetomonas megaseliae, cultures grown with hydroxyurea (inhibitor of DNA synthesis), differences in population number, kinetoplast number and position, and pellicular morphology, net effects of hydroxyurea are enhanced differentiation and abortive cytokinesis

Development, Protozoa

- Krampitz, H. E.; et al., 1976, Ztschr. Parasitenk., v. 51 (1), 7-14
Frenkelia clethrionomyobuteonis, asexual development in bank vole, *Clethrionomys glareolus*

Development, Protozoa

- Kreier, J. P.; et al., 1975, Tropenmed. u. Parasitol., v. 26 (1), 9-18
Babesia rodhaini, B. microti, electron microscopy, relationship of stage of development to structure of intra- and extracellular parasites

Development, Protozoa

- Kreier, J. P.; et al., 1976, Ohio J. Sc., v. 76 (6), 243-253
Trypanosoma cruzi in cell cultures, entry, development, release and ultrastructure

Development, Protozoa

- Kurtti, T. J.; and Brooks, M. A., 1977, J. Invert. Path., v. 29 (2), 126-132
 Microsporida [sp.], growth, development, and fumagillin sensitivity in vitro in moth (*Heliothis zea*) cell culture
Malacosoma disstria: northern Minnesota

Development, Protozoa

- Lainson, R.; Shaw, J. J.; and Ward, R. D., 1976, Parasitology, v. 72 (3), 225-243
Schellackia landauae sp. nov., development, life cycle, exper. transmission between *Polychrus marmoratus* and *Culex pipiens fatigans*: Brazil

Development, Protozoa

- Lainson, R.; Ward, R. D.; and Shaw, J. J., 1977, Proc. Roy. Soc. London, s. B, Biol. Sc. (1135), v. 199, 309-320
Leishmania spp., presence or absence of development in hindgut of sandfly *Lutzomyia longipalpis* (exper.), importance of hindgut development in distinguishing between parasites of *Leishmania mexicana* and *L. braziliensis* complex

Development, Protozoa

- Langreth, S. G.; and Trager, W., 1973, J. Protozool., v. 20 (5), 606-613
Plasmodium lophurae, extracellular development in vitro, light and electron microscopy, incorporation of methionine or proline, observation of abnormalities which may indicate limits of extracellular cultivation in vitro (loss of host-derived outer parasite membrane and apparent reduction in feeding activity via food vacuoles)

- Development, Protozoa
 Leaney, A. J., 1977, *Parasitology*, v. 75 (2), xviii-xxix [Abstract]
Leishmania mexicana amazonensis in *Lutzomyia longipalpis* (exper.) maintained at 3 different temperatures (22, 24, and 28 °C.), distribution of parasites and degree of infection at 24h intervals from 2 to 8 days after infective feed compared, appears that small changes in temperature may have marked effect on development and behavior of *Leishmania* in sandflies and therefore on transmission
- Development, Protozoa
 Lee, E.-H.; Remmler, O.; and Fernando, M. A., 1977, *J. Parasitol.*, v. 63 (1), 155-156
Eimeria tenella, results of single sporocyst infections suggest that sporozoites are sexually undifferentiated
- Development, Protozoa
 Liu, T. P.; and Davies, D. M., 1973, *J. Protozool.*, v. 20 (5), 622-630
Thelohania bracteata, spore envelope during development, ultrastructural architecture and organization, freeze-etching technique
- Development, Protozoa
 Long, P. L.; and Millard, B. J., 1976, *Parasitology*, v. 73 (3), 327-336
Eimeria praecox, *E. maxima*, *E. acervulina*, site finding and site specificity in chickens
- Development, Protozoa
 Loubes, C.; and Maurand, J., 1975, *J. Protozool.*, v. 22 (3), 42A [Abstract]
Gurleya, ultrastructure, developmental stages
- Development, Protozoa
 Loubes, C.; and Maurand, J., 1975, *J. Protozool.*, v. 22 (3), 83A [Abstract]
Gurleya, ultrastructure of some developmental stages
- Development, Protozoa
 Lushbaugh, W. B.; McGhee, R. B.; and Singh, S. D., 1976, *J. Protozool.*, v. 23 (1), 127-134
Plasmodium gallinaceum, erythrocytic stages in embryonic and neonate chicks, abnormal morphology and development associated with adaptation to immature host
- Development, Protozoa
 McCall, H., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 286 [Demonstration]
Rhipicephalus appendiculatus, stimulation of acid phosphatase activity in salivary glands from *Theileria parva* infected and non-infected unfed ticks, parasite maturation not induced
- Development, Protozoa
 McCully, R. M.; et al., 1975, *Onderstepoort J. Vet. Research*, v. 42 (4), 117-133
Hepatozoon sp. in wild carnivores and *H. canis* in dogs compared, location in host, developmental stages, lesions, pathogenesis; attempt to transmit *Hepatozoon* from jackal to dogs by means of *Rhipicephalus sanguineus* was inconclusive: South Africa
- Development, Protozoa
 McDougald, L. R.; and Jeffers, T. K., 1976, *J. Protozool.*, v. 23 (4), 530-534
Eimeria tenella precocious vs. normal strains, comparative development in vitro, pathogenicity attenuation and reduction of prepatent period in precocious strain clearly resulted from omission of portion of life cycle (2nd generation schizogony)
- Development, Protozoa
 McDougald, L. R.; and Jeffers, T. K., 1976, *Science* (4236), v. 192, 258-259
Eimeria tenella, selection for precociousness resulted in strain with only one asexual generation prior to gametogony in vitro
- Development, Protozoa
 McLeod, R. A. F.; and Brown, A., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 286 [Demonstration]
Plasmodium chabaudi, intravenous injection of unadapted strain into splenectomized rats, development of high number of gametocytes
- Development, Protozoa
 Madden, P. A.; and Vetterling, J. M., 1977, *J. Parasitol.*, v. 63 (4), 607-610
Eimeria tenella, development of microgametes from microgamont stage to maturity and fertilization, scanning electron microscopy
- Development, Protozoa
 Markus, M. B., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 7-8 [Demonstration]
Isospora sp. in *Cynictis penicillata* (epithelial cells of small intestine), developmental stages, gametogony: western Transvaal, South Africa
- Development, Protozoa
 Mehlhorn, H.; and Heydorn, A. O., 1977, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 239 (1), 124-139
Sarcocystis suihominis, pigs (exper.), cyst fine structure and development in muscle fibre, nervous and connective tissue cells, light and electron microscopy, concluded that development of *S. suihominis* is somewhat quicker than other sarcosporidia
- Development, Protozoa
 Mehlhorn, H.; Heydorn, O.; and Gestrich, R., 1975, *J. Protozool.*, v. 22 (3), 83A [Abstract]
 calves infected with *Isospora hominis* sporocysts or *I. bigemina* large forms from dog or cat, development of *Sarcocystis fusiformis* cysts in musculature, each of 3 species of *Isospora* forms characteristic cysts, "Ainsi, il semble prouve que les kystes de *Sarcocystis fusiformis* Railliet, 1897 font partie des cycles de developpement d'au moins trois especes differentes de Coccidies."
- Development, Protozoa
 Mehlhorn, H.; and Schein, E., 1976, *J. Protozool.*, v. 23 (4), 14A [Abstract]
Theileria, sexual development in intestine and hemolymph of *Hyalomma anatolicum excavatum*

- Development, Protozoa
Mehlhorn, H.; and Schein, E., 1976, Tropenmed. u. Parasitol., v. 27 (2), 182-191
electron microscopic study of developmental stages of *Theileria parva* in the intestine of the tick *Hyalomma anatolicum*
- Development, Protozoa
Mehlhorn, H.; and Schein, E., 1977, J. Protozool., v. 24 (2), 249-257
Theileria annulata in *Hyalomma anatolicum excavatum*, development of kinetes, electron microscopic studies
- Development, Protozoa
Mello, M. N.; and Deane, M. P., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 381-388
Trypanosoma cruzi 4 strains, patterns of development in embryonated chicken egg, effect of temperature
- Development, Protozoa
Mignot, J.-P.; and Brugerolle, G., 1974, J. Protozool., v. 21 (5), 649-658
Opalina, Cepedea, ultrastructure of 2 different types of cysts, cortical morphogenesis
- Development, Protozoa
Miltgen, F.; et al., 1976, Ann. Parasitol., v. 51 (3), 299-302
Hepaticystis brayi, development in *Culicoides* spp. (exper.)
- Development, Protozoa
Mitchell, G. H.; Butcher, G. A.; and Cohen, S., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 12-13 [Demonstration]
Plasmodium falciparum, rapid development of gametocytes in culture
- Development, Protozoa
Miyata, A., 1976, Nettai Igaku (Trop. Med.), v. 18 (3), 135-141
Dactylosoma ranarum, survey, incidence in tadpoles and frogs, parasite development and morphology
- Development, Protozoa
Morzaria, S. P.; Bland, P.; and Brocklesby, D. W., 1976, Research Vet. Sc., v. 21 (1), 1-11
Babesia major, ultrastructure in infected *Haemaphysalis punctata*, characteristic organelles in *B. major* merozoites confirm this parasite to subphylum Apicomplexa
- Development, Protozoa
Mueller, B. E. G., 1975, J. Protozool., v. 22 (3), 11A [Abstract]
Eimeria contorta, sporozoite ultrastructure and transformation into schizonts
- Development, Protozoa
Mueller, B. E. G., 1975, Ztschr. Parasitenk., v. 47 (2), 91-101
Eimeria contorta, development, first generation merozoites to second generation schizonts and merozoites in mouse, electron microscopy
- Development, Protozoa
Mueller, B. E. G.; deVos, A. J.; and Hammond, D. M., 1973, J. Protozool., v. 20 (2), 293-297
Eimeria canadensis, development of first generation schizonts and merozoites in various bovine cell cultures
- Development, Protozoa
Mugera, G. M.; and Munyua, W. K., 1973, Bull. Epizoot. Dis. Africa, v. 21 (1), 51-66
Theileria parva, developmental stages in tick and bovine tissues, electron microscopy
- Development, Protozoa
O'Daly, J. A., 1976, J. Protozool., v. 23 (4), 577-583
Trypanosoma cruzi, division and epimastigote-to-trypomastigote transformation in vitro, growth-stimulating capacities of fetal calf serum fractions and proteins
- Development, Protozoa
O'Daly, J. A.; and Bretana, A., 1976, Internat. J. Parasitol., v. 6 (3), 271-278
Trypanosoma cruzi epimastigotes obtained from new liquid culture medium, morphogenesis of kinetoplast-mitochondrion complex in division and growth, description of crystalline pattern of channels between mitochondria and kinetoplasts, new structure at flagellar end in epimastigotes reported
- Development, Protozoa
Olson, R. E., 1975, J. Protozool., v. 22 (3), 29A [Abstract]
Paraphrys vetulus were exper. infected with *Glugea stephani* by feeding on *Artemia salini* and *Corophium spinicorne* that had been allowed to ingest spores, temperature found to be of critical importance in establishment and development of *G. stephani*
- Development, Protozoa
Omar, M. S.; Gwadz, R. W.; and Miller, L. H., 1975, Tropenmed. u. Parasitol., v. 26 (3), 303-306
Plasmodium cynomolgi in *Anopheles balabacensis* (exper.), incorporation of nucleic acid precursors into sporogonic stages indicates that parasites need exogenous sources of purine but rely on synthesis of pyrimidine during development in vector
- Development, Protozoa
Otieno, L. H.; Darji, N.; and Onyango, P., 1976, Acta Trop., v. 33 (2), 143-150
Trypanosoma brucei, development to infective stage in *Glossina morsitans* following inoculation of bloodstream forms into haemocoel, observations suggest possibility of cyclical transmission other than by the classically prescribed route of migration in tsetse; unusual modes of multiplication observed in haemocoel trypanosomes
- Development, Protozoa
Overdulse, J. P., 1976, Trop. and Geogr. Med., v. 28 (4), 363 [Abstract]
Toxoplasma gondii, light and electron microscopy of development in small intestine of cat

- Development, Protozoa
Pacheco, N. D.; and Fayer, R., 1977, *J. Protozool.*, v. 24 (3), 382-388
Sarcocystis cruzi, fine structure of schizonts, method of schizogonic development
- Development, Protozoa
Pakes, S. P.; Shaddock, J. A.; and Cali, A., 1975, *J. Protozool.*, v. 22 (4), 481-488
Encephalitozoon cuniculi from rabbits, fine structure and development in rabbit choroid plexus cell cultures found to be identical with that of isolates from hamster and mouse, "proposed, therefore, that the 3 organisms represent the same species, Encephalitozoon cuniculi."
- Development, Protozoa
Pasternak, J.; et al., 1977, *Parasitology*, v. 74 (2), 199-203
Eimeria zuernii, cattle intestinal cells infected with first-generation schizonts, nuclear hypertrophy is dissociated from DNA replication
- Development, Protozoa
Paterson, W. B.; and Desser, S. S., 1976, *J. Protozool.*, v. 23 (2), 294-301
Haemogregarina balli sp. n., life cycle and biology: leeches as presumed vectors; description of sporogonic development; no transovarial transmission in turtle; failure to exper. infect turtles or leeches: Lake Sasajewan, Algonquin Park, Ontario, Canada
- Development, Protozoa
Pautrizel, A. N.; et al., 1977, *Compt. Rend. Acad. Sc., Paris*, v. 284, s. D (21), 2187-2190
Trypanosoma equiperdum, influence of ambient temperature on development in mice, depends on individual and strain of host, hyperthermia may stimulate host defense mechanisms
- Development, Protozoa
Perkins, F. O., 1976, *J. Protozool.*, v. 23 (1), 64-74
Martellia refringens, ultrastructure of sporulation establishes as member of Haplosporea
- Development, Protozoa
Pfefferkorn, E. R.; Pfefferkorn, L. C.; and Colby, E. D., 1977, *J. Parasitol.*, v. 63 (1), 158-159
Toxoplasma gondii, development of gametes and oocysts in cats fed cysts derived from cloned trophozoites, results suggest that genome of each T. gondii contains genetic potential for production of both macro- and micro-gametes
- Development, Protozoa
Phillips, R. S.; Wilson, R. J. M.; and Pasvol, G., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 286 [Demonstration]
Plasmodium falciparum, differentiation of gametocytes in vitro
- Development, Protozoa
Picard-Maureau, A.; et al., 1975, *Tropenmed. u. Parasitol.*, v. 26 (4), 405-416
Plasmodium vinckei-infected mouse erythrocytes, protein content, glutathione concentration, enzyme activity, correlation with stage of parasite development, significance of results for metabolism of malaria parasites and for possible adaptation to mosquito
- Development, Protozoa
Pifer, L. L.; Hughes, W. T.; and Murphy, M. J., jr., 1977, *Pediat. Research*, v. 11 (4), 305-316
Pneumocystis carinii, isolation and propagation in vitro using chick embryo epithelial lung cell cultures; scanning and transmission electron morphology, life cycle and cyst multiplication, attachment to host cells, RNA, DNA and protein synthesis, no active mechanism for motility observed
- Development, Protozoa
Porchet, E.; and Dubremetz, J. F., 1976, *J. Protozool.*, v. 23 (4), 18A [Abstract]
Globidium gilruthi, formation of supernumerary conoids during course of schizogony
- Development, Protozoa
Potgieter, F. T.; and Els, H. J., 1976, *Onderstepoort J. Vet. Research*, v. 43 (3), 123-128
Babesia bovis, merozoite development in salivary glands of Boophilus microplus larvae, ultrastructure
- Development, Protozoa
Purnell, R. E.; et al., 1975, *J. Parasitol.*, v. 61 (4), 725-729
comparison of development of Theileria mutans in adult Amblyomma variegatum with T. parva in Rhipicephalus appendiculatus
- Development, Protozoa
Ramalingam, S.; Dissanaik, A. S.; and Fernando, M. A., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (1), 148 [Demonstration]
microsporidian in Culex sitiens interfered with development of attempted experimental Plasmodium gallinaceum infections in the mosquito: Rantau Panjang area, West Malaysia
- Development, Protozoa
Regal, D. S., 1976, *Zentralbl. Vet.-Med., Reihe B*, v. 23 (9), 744-763
Eimeria necatrix, chickens (exper.), developmental stages in middle section of small intestine, caecum and large intestine, light and electron microscopy
- Development, Protozoa
Regal, D. S., 1977, *Zentralbl. Vet.-Med., Reihe B*, v. 24 (4), 297-316
Eimeria necatrix in chickens (exper.), developmental stages of schizogony and gametogony in various sections of the intestine, light and electron microscopy

- Development, Protozoa
Regal, D. S., 1977, Zentralbl. Vet.-Med., Reihe B, v. 24 (9), 708-721
Eimeria necatrix, formation and histochemistry of inner and outer oocyst shells, light and electron microscopy
- Development, Protozoa
Riedel, D., 1975, J. Protozool., v. 22 (1), 8-17
Trypanosoma (Herpetosoma) tamiassi sp. n., life cycle, mode of reproduction, morphogenesis, morphometrics, host specificity
- Development, Protozoa
Roitman, I.; et al., 1976, J. Protozool., v. 23 (2), 291-293
"Leptomonas pessoai may be regarded as a thermophilic species of *Herpetomonas*. . . and we suggest that it be designated *Herpetomonas samuelpessoai* sp. n.", differentiation of original strain and clones from promastigote to opisthomastigote faster at high temperature and in defined medium
- Development, Protozoa
Rollinson, D., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 21 [Demonstration]
Eimeria tenella, development in *Coturnix c. japonica* eggs to oocysts capable of sporulation
- Development, Protozoa
Rossan, R. N.; and Baerg, D. C., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 471-472
Plasmodium vivax in *Saimiri sciureus* (exper.), morphology and development of exoerythrocytic stages of infection
- Development, Protozoa
Ruiz, A.; and Frenkel, J. K., 1976, J. Infect. Dis., v. 133 (4), 409-418
Sarcocystis muris, obligatory 2-host life cycle (mouse-cat), development, pathology
- Development, Protozoa
Sanders, R. D.; and Poinar, G. O., jr., 1976, J. Invert. Path., v. 28 (1), 109-119
Pleistophora probably n. sp. in *Aedes sierrensis*, development and fine structure, potential as biological control agent
- Development, Protozoa
Schein, E.; Warnecke, M.; and Kirmse, P., 1977, Parasitology, v. 75 (3), 309-316
Theileria parva, life cycle in gut of *Rhipicephalus appendiculatus*, morphology of developmental stages
- Development, Protozoa
Schmidt, L. H.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 356-372
Plasmodium cynomolgi B strain, biology and characteristics of untreated infections compared in various Old World primates, possible substitution of one of these hosts as replacement for *Macaca mulatta* as laboratory host for experimental research
- Development, Protozoa
Schnur, L. F., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 277-278 [Demonstration]
Leishmania braziliensis braziliensis (slow strain), *L. mexicana amazonensis* (fast strain); dissemination in hamsters
- Development, Protozoa
Senaud, J., 1972, Bull. Inst. Pasteur, Paris, v. 70 (1), 3-27
extensive review of life cycle, morphology and development of *Toxoplasma gondii*
- Development, Protozoa
Senaud, J.; and Mehlhorn, H., 1977, J. Protozool., v. 24 (4), 64A [Abstract]
Besnoitia jellisoni, ultrastructural aspects of development in tissue culture
- Development, Protozoa
Senaud, J.; Mehlhorn, H.; and Scholtyssek, E., J. Protozool., v. 21 (5), 715-720
Besnoitia jellisoni, development in macrophages and cysts from experimentally infected *Mus musculus*, results concerning origin and formation of inner complex of pellicle during endodyogeny indicate origin of inner membranes from endoplasmic reticulum
- Development, Protozoa
Sethi, K. K.; et al., 1973, Nature, London, N. Biol. (129), v. 243, 255-256
Toxoplasma gondii, multiplication in enucleated L cells proves that nucleocytoplasmic integrity is not required for intracytoplasmic multiplication of this parasite
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- Development, Trematoda
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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Pneumocystis carinii pneumonia, radiographic diagnosis of chronic infection, case report of unusual chronicity and cavitation demonstrating need to consider P. carinii in persons with immunologic and pulmonary parenchymal disease
- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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- Diagnosis, Protozoa
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Diagnosis, Protozoa

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Diagnosis, Protozoa

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Pneumocystis carinii pneumonia, analysis of 194 confirmed cases in United States over 3-year period, diagnosis by biopsy or needle aspiration of lung, pentamidine therapy effective but frequently caused impaired renal function when given in conjunction with nephrotoxic agents, occurrence almost exclusively in immunosuppressed host with serious underlying disease

Diagnosis, Protozoa

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Pneumocystis carinii pneumonia in humans, histopathology of typical and atypical features found on lung biopsy, importance of differential diagnosis especially in immunologically compromised patients

Diagnosis, Protozoa

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Diagnosis, Protozoa

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Diagnosis, Protozoa

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Diagnosis, Protozoa

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Toxoplasma gondii, guidebook for physicians and veterinarians, morphology, life cycle, diagnosis, epidemiology, pathology, prenatal infection, veterinary aspects, extensive review

Diagnosis, Protozoa

Willaert, E.; Jadin, J. B.; and Le Ray, D., 1972, *Protistologica*, v. 8 (4), 497-504

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Diagnosis, Protozoa

Willaert, E.; and Stevens, A. R., 1976, *Path. Biol.*, v. 24 (2), 89-91

Acanthamoeba castellanii, purified plasma membranes, elicited antisera assayed by immunoprecipitation and immunofluorescence methods, cross reaction with other species of *Acanthamoeba*; plasma membrane antisera may allow identification of species or even strains

Diagnosis, Protozoa

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Pneumocystis carinii as cause of interstitial pneumonia in immunocompromised children, diagnosis by open lung biopsy, statistics of clinical cases

Diagnosis, Protozoa

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Diagnosis, Protozoa

Yang, J.; and Scholten, T., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (1), 16-22

Dientamoeba fragilis in humans, extensive epidemiologic survey, pathology, fecal examination diagnostic methods, periodicity, frequent occurrence in presence of *Enterobius vermicularis* suggests possibility of helminths as vectors: Toronto, Canada

Diagnosis, Protozoa

Young, R. C.; Bennett, J. E.; and Chu, E. W., 1976, *Lancet*, London (7994), v. 2, 1082-1083

Pneumocystis carinii, human pneumonia, differential diagnosis from similar mimicking diseases

Diagnosis, Protozoa

Zaman, V., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (4), 603

Sarcocystis orientalis, redescription and revision of new species diagnosis

Diagnosis, Protozoa

- Zaremba, A.; and Szarmach, H., 1977, *Przegl. Dermat.*, v. 64 (4), 461-463
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Diagnosis, Protozoa

- Zuberi, S. J.; and Panjvani, Z., 1973, *Pakistan J. Med. Research*, v. 12 (3), 10-14
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Diagnosis, Protozoa

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Diagnosis, Trematoda

- Akoun, G.; et al., 1975, *Nouv. Presse Med.*, v. 4 (33), 2408 [Letter]
Schistosoma mansoni in woman with pulmonary granuloma originally diagnosed as tuberculosis, clinical case report: France (native of Guadeloupe)

Diagnosis, Trematoda

- Alcoba Leza, M.; Lopez Lopez, C.; and Lopez Nicolas, S., 1973, *Med. Clin.*, Barcelona, v. 60 (2), 119-123
 pleuropulmonary manifestations in human *Fasciola hepatica*, diagnosis by radiography and dysproteinemia

Diagnosis, Trematoda

- Balbo, T.; et al., 1973, *Ann. Fac. Med. Vect. Torino*, v. 20, Suppl., 33-71
Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology; blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)

Diagnosis, Trematoda

- Bayssade-Dufour, C., 1977, *Compt. Rend. Acad. Sc.*, Paris, v. 284, s. D (3), 191-193
Schistosoma mansoni cercariae, 9 strains (4 African, 5 American), differences in chemotherapy

Diagnosis, Trematoda

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Schistosoma haematobium, use of mefloquine and gynergene muscle constrictors to diagnose infection through excess passage of eggs in urine: Senegal

Diagnosis, Trematoda

- Bergman, H.; and Friedenberg, R. M., 1971, *N. York State J. Med.*, v. 71 (4), 453-454
 human schistosomiasis, radiologic diagnostic features

Diagnosis, Trematoda

- Berry, A., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 263-264 [Demonstration]
Schistosoma mattheei, *S. haematobium*, *S. mansoni*, single or mixed infections in humans, diagnosis of gynecological involvement using Papanicolaou cytologic smears

Diagnosis, Trematoda

- Berry, A., 1976, *Acta Cytol.*, v. 20 (4), 361-365
Schistosoma spp., differential diagnosis of ova especially when multispecies infections detected in female genital tract on cytology smears

Diagnosis, Trematoda

- Brglez, J., 1976, *Zborn. Bioteh. Fak. Univ. Ljubljani, Vet.*, v. 13 (2), 197-209
Strigea falconis, *S. strigis*, *Apharyngostrigea cornu*, morphology, histological sections give best results for identification

Diagnosis, Trematoda

- Briggs, M.; Warlock, R. W.; and Briggs, M. H., 1972, *Med. J. Zambia*, v. 6 (2), 339-41
 comparison of serum proteins of healthy subjects and those of persons with untreated malaria, hookworm or schistosomiasis, possible diagnostic value: Zambia

Diagnosis, Trematoda

- Brückmann, A., jr., 1975, *Medd. Grönland*, v. 205 (2), 1-88
Gonocerca, differential diagnosis between species

Diagnosis, Trematoda

- Cabrera, B. D.; and Vajrasthira, S., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (4), 509-518
Paragonimus, differentiating morphologic characteristics of cuticular spines and shape and branching of ovaries of 4 spp.

Diagnosis, Trematoda

- Calameil, M., 1977, *Rec. Med. Vet.*, v. 153 (5), 343-348
Dicrocoelium lanceolatum, lambs, indirect immunofluorescence diagnosis, 9 weeks earlier response for diagnosis than fecal examination

Diagnosis, Trematoda

- Calameil, M.; and Giauuffret, A., 1976, *Rec. Med. Vet.*, v. 152 (2), 99-104
Dicrocoelium lanceolatum, 55 ewes, detailed examination of livers and rectal contents, comparison of individual and total results of fecal examination, correlation with numbers of parasites, statistical analysis, evaluation of quantitative data from fecal examinations for group diagnosis; degrees of infestation defined

- Diagnosis, Trematoda
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Schistosoma mansoni in 14-year old boy affecting spinal cord and nervous system, diagnosis after biopsy of lesion, clinical improvement with ambilhar: Brazil
- Diagnosis, Trematoda
Chlebowski, H. O.; and Zielke, E., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 181-182 [Letter]
Wuchereria bancrofti, Onchocerca volvulus in humans, diagnosis of microfilaruria using a modified membrane filter technique; application also to filtration of eggs from urine of persons suspected to have schistosomal infections: Liberia, West Africa
- Diagnosis, Trematoda
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Gogatea, Neogogatea, morphological comparisons, distinguishing characters
- Diagnosis, Trematoda
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Paragonimus heterotremus established as source of human Paragonimus infection by diagnostic differentiation of eggs from those of P. westermani: Laos
- Diagnosis, Trematoda
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diagnostic signs of human schistosomal disease with discussions on associated urinary tract pathology and possible relationships with hypertension and bladder cancer
- Diagnosis, Trematoda
Gove, R. B., 1972, Med. J. Zambia, v. 6 (5), 149-155
routine rectal-sigmoid biopsy in diagnosed cases of Schistosoma haematobium urinary tract infections disclosed frequent concomitant Schistosoma mansoni infections of intestine: Zambia
- Diagnosis, Trematoda
Grelck, H., 1976, Ztschr. Parasitenk., v. 50 (2), 181
fascioliasis, cattle, comparison of diagnostic methods (fecal examination, anthelmintic-induced egg shedding, latex agglutination, indirect immunofluorescence)
- Diagnosis, Trematoda
Henriksen, S. A., 1977, Nord. Vet.-Med., v. 29 (10), 452-457
Fasciola hepatica, cattle (faeces), mixed infection with Buxtonella sulcata poses no problems in differential diagnosis relative to helminth eggs or coccidia: Kolding, Denmark
- Diagnosis, Trematoda
Heyneman, D.; and Umathevy, T., 1966, Med. J. Malaya, v. 20 (4), 353-354
differentiation of Plagiorchis spp. cercariae using the patterns of their argentophilic cuticular structures
- Diagnosis, Trematoda
Hillyer, G. V.; and Santiago de Weil, N., 1977, J. Parasitol., v. 63 (3), 430-433
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- Diagnosis, Trematoda
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- Diagnosis, Xenodiagnosis
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Nosema kingi, longevity of Drosophila willistoni host, varied diets and age of host at time of infection; host susceptibility at various ages
- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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- Diet, Host**
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Fasciola hepatica, calves (exper.), no strong variations in ability to digest diet as compared to controls, not an explanation for observed growth deficiencies

- Diet, Host
Canale, A.; et al., 1977, *Folia Vet. Latina*, v. 7 (1), 82-90
Ostertagia ostertagi, calves (exper.), digestive utilization of host diet, results indicate that the diminished digestibility is not sufficient to account for the reduced growth
- Diet, Host
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- Diet, Host
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course of infection with *Trichinella spiralis* and *Hymenolepis diminuta* when a parasitized, enterally fed rat is switched to total parenteral nutrition
- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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Moniliformis dubius, rats, effect of host dietary starch on course of infection
- Diet, Host
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- Diet, Host
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- Diet, Host
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Ascaridia galli larvae, chickens fed with amino acid-deficient cereal diet, effect on components of blood serum
- Diet, Host
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Skrjabinylus nasicola, theoretical aspects of transmission to stoats and weasels based on laboratory study of food habits under conditions of food abundance and food shortage; extent of skull damage in weasels
- Diet, Host
Dunkley, L. C.; and Mettrick, D. F., 1976, *Canad. J. Zool.*, v. 54 (7), 1073-1078
Hymenolepis diminuta, rat, effect of increasing host dietary carbohydrate uptake on growth of 14-day-old worms, comparison of glucose vs. cornstarch diets
- Diet, Host
Dunkley, L. C.; and Mettrick, D. F., 1977, *Exper. Parasitol.*, v. 41 (1), 213-228
Hymenolepis diminuta, rats, dietary carbohydrate intake, host's intestinal and blood plasma glucose levels, worm migration
- Diet, Host
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Plasmodium berghei infected mice (exper.), immunization studies using sulfathiazole-treated drinking water and comparison with para-aminobenzoic acid deficient diet for control of parasitic proliferation during sensitization period; balance between suppressive effect of drug and survival of parasites in treated host is important for induction of immunity

- Diet, Host
Enigk, K.; Feder, H.; and Dey-Hazra, A., 1976, Zentralbl. Vet.-Med., Reihe B, v. 23 (3), 255-264
Taenia hydatigena, pigs, sheep, normal and high mineral diets, mineral, enzyme, and fatty acid content of cysts and of host blood
- Diet, Host
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filariasis in normal and protein-deficient cotton rats, serum enzyme levels
- Diet, Host
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Trypanosoma evansi-inoculated mice, influence of glucose on number of parasites found
- Diet, Host
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Hymenolepis nana, white mice, transmission rate, exposure in small cages to parasite eggs or to feces from infected mice, increased likelihood of infection with prior host starvation probably due to increased coprophagy
- Diet, Host
Gingrich, R. E., 1973, J. Med. Entom., v. 10 (5), 482-487
Hypoderma lineatum, effects of host diet and immunosuppressant treatments (rabbit anti-mouse lymphocyte serum and whole-body irradiation) on survival and growth of larvae and on susceptibility of Mus musculus to infestation
- Diet, Host
Gladney, W. J.; et al., 1973, J. Med. Entom., v. 10 (2), 123-130
Boophilus annulatus, Holstein cattle (exper.), high protein and fat diet vs. low protein and fat diet, effect on host resistance, hematocrit, and serum cholesterol values, and on tick development and numbers; host resistance primarily physiological rather than behavioral (self grooming)
- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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- Diet, Host
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Trichostrongylus colubriformis, lambs (exper.), effect of host diet low in selenium as compared to diets supplemented with vitamin E and selenium, pathology, haematological changes, serum enzyme changes
- Diet, Host
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Pneumocystis carinii pneumonia in humans, differential diagnosis, clinical manifestations, pathophysiology of infection, close association with protein-calorie deprivations
- Diet, Host
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- Diet, Host
Jablonowski, Z., 1970, Acta Parasitol. Polon., v. 17 (20-38), 271-284
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- Diet, Host
Jordan, H. E.; et al., 1977, Am. J. Vet. Research, v. 38 (8), 1157-1160
Ostertagia ostertagi, Cooperia, influence on energy efficiency in full-fed vs. maintenance-fed steers with high vs. low worm burdens (low worm burdens did not significantly effect energy utilization; in full-fed steers, energy retention was greater in steers with lower worm burdens; maintenance-fed steers were more heavily parasitized than full-fed steers)
- Diet, Host
Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
Litomosoides carinii, effect of host dietary fat content on growth and development of parasite and cotton rat hosts

- Diet, Host
Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
Litomosoides carinii, effect of protein-deficient diets on growth and development of parasites and cotton rat hosts
- Diet, Host
Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
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- Diet, Host
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- Diet, Host
Kilgour, V.; and Godfrey, D. G., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 258 [Abstract]
Trypanosoma brucei brucei in mice, influence of dietary pyridoxine
- Diet, Host
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- Diet, Host
Komunicki, R. W.; and Roberts, L. S., 1977, Comp. Biochem. and Physiol., v. 57 (1B), 45-49
Hymenolepis diminuta, hexokinase, purification and characterization, host rat starvation and refeeding have no effect on soluble hexokinase activity in this helminth
- Diet, Host
Kretschmar, W.; and Voller, A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 51-59
Plasmodium falciparum, suppression of malaria in Aotus trivirgatus fed exclusively on milk diet, indicates that P. falciparum is dependent on exogenous p-aminobenzoic acid supply for normal growth, supports view that dietary factors are involved in infant resistance to malaria
- Diet, Host
Lara, S. I. M.; de Oliveira, C. M. B.; and Porto, J. C. A., 1976, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 28 (1), 93-99
Haemonchus sp., sheep (exper.), cobalt sulfate diet supplement, increased production and size of eggs, lower number of worms in autopsy
- Diet, Host
Lee, C. M.; Aboko-Cole, G. F.; and Fletcher, J., 1976, Ztschr. Parasitenk., v. 49 (1), 1-10
Trypanosoma musculi, vitamin A-deficient mice, increased parasitemia, delayed action of reproductive-inhibiting and terminal lytic antibodies, increase in body weight gains and food consumption
- Diet, Host
Lee, C. M.; George, Y. G.; and Aboko-Cole, G. F., 1977, Internat. J. Biochem., v. 8 (7), 525-529
Trypanosoma lewisi in iron-deficient rats, parasitemias, trypanosome cell size and antibody formation, host body weight gains and food consumption
- Diet, Host
Lim, B. L., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (4), 530-533
Gnathostoma spinigerum adult worms removed from naturally infected Prionodon linsang (stomach) during survey for possible infections in civet and wild cats, morphologic statistics, discussion of civet cat dietary habits in relationship to infection: Bukit Mandol Forest Reserve, Selangor, Kuala Lumpur
- Diet, Host
Lim, B. L.; and Betterton, C., 1977, J. Helminthol., v. 51 (4), 295-299
Paragonimus westermani found in felid but not in viverrid cats, analysis of stomach contents revealed no remains of crab intermediate hosts in either family of cats, in feeding experiments only viverrids ate host crabs, probable transmission of P. westermani to felids via paratenic hosts: Malaysia
- Diet, Host
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Marsipometra hastata, Marsipometra parva, higher intensity of infection in female paddlefish (Polyodon spathula) due to their larger size and greater food intake: Yellowstone River near Intake, Montana
- Diet, Host
Lockard, L. L.; Parsons, R. R.; and Schaplow, B. M., 1975, Great Basin Nat., v. 35 (4), 442-448
Salmo trutta (upper digestive tract), relationship of incidence and intensity of nematode infection to age and sexual maturity of host, higher infection rate in sexually mature trout due to aggressive feeding behavior: streams in southern and western Montana
- Diet, Host
McLeod, C. C.; Wolff, J. E.; and Schwarz, G., 1976, N. Zealand J. Exper. Agric., v. 4 (2), 219-225
thiabendazole and selenium drenching, weaned Merino or halfbred ewe lambs, grazing on pasture or in paddocks with supplementary feeding, live-weight gain, wool weights: South Canterbury
- Diet, Host
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Caryophyllaeus laticeps, seasonal incidence, ages of parasite and worm burden in bream; estimating host diet of intermediate hosts from parasite incidence; C. laticeps incidence in relation to Ligula intestinalis incidence

Diet, Host

Monteoliva, M.; Benito, M.; and Hermoso, R., 1973, *Rev. Iber. Parasitol.*, v. 33 (4), 515-524
Ascaris lumbricoides, perivisceral liquid, statistical analysis of content of proteins, hemoglobin and "adenine derivatives"; protein and hemoglobin content influenced by intestinal content and diet of host but not by maturity of parasite; types of proteins dependent on weight and maturity of parasite

Diet, Host

Nadakal, A. M.; et al., 1973, *Riv. Parassitol.*, Roma, v. 34 (3), 185-191
Raillietina tetragona, resistance potential of four breeds of domestic fowl on protein-deficient diet, normal development of worms seems independent of quantity of protein ingested by host, protein deficiency symptoms were intensified with worm infection

Diet, Host

Nadakal, A. M.; et al., 1975, *Riv. Parassitol.*, Roma, v. 36 (1), 41-46
Raillietina tetragona, four breeds of domestic chickens, calcium deficient diets, significant depression of weight gains, breed differences in calcium content of worms and total leucocyte values of host birds

Diet, Host

Nasir, P., 1973, *Riv. Parassitol.*, Roma, v. 34 (3), 169-180
Cercarial biology: developmental anomalies; emergence in relation to light, host starvation, temperature, rough handling of host or changed environment, and number of parthenitae within snails

Diet, Host

Nesheim, M. C.; et al., 1977, *Proc. Roy. Soc.*, London, s. B (1128), v. 197, 363-383
Moniliformis dubius, course of infection, growth, and reproduction in rats fed on diets of various compositions

Diet, Host

Parkins, J. J.; Holmes, P. H.; and Bremner, K. C., 1973, *Research Vet. Sc.*, v. 14 (1), 21-28
Ostertagia circumcincta, effects of different infection levels on feed intake, apparent digestibility, and nitrogen balance in Blackface sheep when fed rations of different nitrogen content

Diet, Host

Pascoe, D.; and Matthey, D., 1977, *Ztschr. Parasitenk.*, v. 51 (2), pp. 179-186
Schistocephalus solidus-parasitized *Gasterosteus aculeatus*, 3 different feeding levels, compared with parasite-free fish; parasitized fish on restricted diets died before parasite-free fish; feeding rate to maintain total body weight higher in parasite-free fish, may reflect greater gross efficiency of parasite

Diet, Host

Petersen, J. J., 1973, *J. Med. Entom.*, v. 10 (1), 75-79
Reesimermis nielsenii, mass production using *Culex pipiens quinquefasciatus*, effects of host density, parasite-host ratio, and amount of food fed to host on percentage of parasitism and female nemas produced

Diet, Host

Plasota, K., 1969, *Acta Parasitol. Polon.*, v. 16 (1-19), 1968-1969, 47-60
 helminths of frogs, comparison of aquatic and terrestrial hosts, relation of parasite fauna to environment, food supplies and food habits, host life cycle, temperature, rainfall, season, age and sex of host, competition between species of parasite, localization within host: Kampinos National Park, Poland

Diet, Host

Potter, L. M.; and Shelton, J. R., 1977, *Poultry Science*, v. 56 (5), 1748-1749 [Abstract]
 large white female turkeys, effects of varying protein and methionine levels and of adding anticoccidial agents in their diets to 16 weeks of age, body weights from anticoccidial treatment not significantly different

Diet, Host

Pout, D. D., 1974, *Brit. Vet. J.*, v. 130 (1), 54-60
Eimeria crandallis, *Eimeria* arloingi 'B', lambs (exper.), effects on host growth, food intake, faecal oocyst production and clinical symptoms; results indicate that diet may influence the total body response to infection in experimental animals

Diet, Host

Rao, K. B. V., 1975, *Indian J. Zool.*, v. 3 (1-2), 51-53
Trypanosoma saccobranchi in *Saccobranchus fossilis* (blood), intensity of infection higher in fishes continuously fed with earthworms than those not given food, preliminary experiment: pond near Hyderabad

Diet, Host

Rao, V. G.; and Padma, M. C., 1975, *Indian J. Exper. Biol.*, v. 13 (2), 168-171
Entamoeba histolytica, rats on low protein, low vitamin diet, increased susceptibility, poor immune response as shown by haemagglutination test

Diet, Host

Ricciardi, M. L., 1972, *Parassitologia*, v. 14 (2-3), 347-351
 survey of human intestinal parasites, comparison between Bantu and immigrated Europeans living on same farm, differences due to environmental, hygienic and dietary conditions: district of Lobaye

Diet, Host

Ross, G. W.; and Knight, R., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 560-567
Entamoeba histolytica, dietary factors affecting pathogenicity in rats, effect of low protein and low protein-high carbohydrate diets, measurements of bacterial flora, pH, and redox potential

Diet, Host

Ryley, J. F.; and Hardman, L., 1977, Parasitology, v. 75 (2), xv [Abstract]

Eimeria spp., effect of vitamin K-deficient diets on infection and in particular on effectiveness of anti-coccidial drugs, concluded that use of deficient diet in screening and evaluating drugs is justified

Diet, Host

dos Santos, M. D.; Viana, E. S.; and Ferreira, J. M., 1976, Arq. Escola Vet. Minas Gerais, v. 28 (3), 297-306

influence of diet, banminth II and gastrointestinal nematodes on serum proteins of sheep

Diet, Host

Saoud, M. F. A.; and Ramadan, M. M., 1976, Ztschr. Parasitenk., v. 51 (1), 37-47

helminth parasites of bats, relationships among and within groups of helminths, effect of host sex and diet: Egypt

Diet, Host

Saowakontha, S., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (1), 37-40

Trichinella spiralis, absorptive functions of intestines of infected rats on low and high protein diets were not impaired either in early or late intestinal phases of infections as tested by D-xylose absorption

Diet, Host

Saowakontha, S., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (4), 586-592

Trichinella spiralis, rats (exper.), effects of different levels of protein in diet on numbers of intestinal worms and muscular larvae and on intensity of infections in hosts of varying weights and ages

Diet, Host

Saowakontha, S., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (1), 79-81

Trichinella spiralis, no differences between number of worms in immunized rats (exper.) fed low or high protein diets, significantly lower number of worms in immunized rats compared with rats not immunized

Diet, Host

Seitz, H. M., 1975, Tropenmed. und Parasitol., v. 26 (4), 417-425

Plasmodium berghei, strain K 173 in isogenic mouse strains (exper.), infection course, immunization by intermittent suppression of parasite multiplication by maintaining mice on milk diets of varying lengths, F1-hybrids most resistant and immunization attempts most successful with this strain

Diet, Host

Seitz, H. M., 1976, Tropenmed. u. Parasitol., v. 27 (1), 33-43

description of antigens and antibodies demonstrated during course of *Plasmodium berghei* infections in mice, comparison of animals with lethal infections and those maintained on milk-diet suppressed infections

Diet, Host

Sen, D. K.; and Jones, W. R., 1973, J. Protozool., v. 20 (4), 504

Trypanosoma duttoni, growth response of mice on normal vs. pyridoxine-deficient diet compared with uninfected controls

Diet, Host

Sen, D. K.; and Jones, W. R., 1974, J. Protozool., v. 21 (3), 446 [Abstract]

Trypanosoma duttoni, castrated and uncastrated mice on two different diets, growth response and parasitemia

Diet, Host

Sen, D. K.; and Lin, V. K., 1973, J. Protozool., v. 20 (4), 503-504

Trypanosoma duttoni, development in mice fed normal vs. pyridoxine-deficient diet and infected in spring vs. summer

Diet, Host

Sherkov, S., 1976, Vet. Med. Nauki, v. 13 (9), 93-99

Eimeria tenella, chickens, thiamine and egg white in feed, effects on host pathomorphology and on mortality and oocyst production

Diet, Host

Stephenson, L. S.; Georgi, J. R.; and Cleveland, D. J., 1977, Cornell Vet., v. 67 (1), 92-102

Ascaris suum, pigs (exper.), worm burden in weanling pigs fed low and high protein diets after infection with known numbers of larvae isolated from rabbits, production of worm burdens of consistent size, potential model for human *Ascaris* studies

Diet, Host

Sykes, A. R.; and Coop, R. L., 1976, Proc. Nutrition Soc., v. 35 (1), 13A-14A [Abstract]

Trichostrongylus colubriformis, *Ostertagia circumcincta*, sheep (exper.), effects of extensive chronic parasitism on food intake and utilization by growing lambs, deposition of nitrogen and fat severely impaired and food intake reduced by 9%

Diet, Host

Sykes, A. R.; and Coop, R. L., 1976, J. Agric. Sc., v. 86 (3), 507-515

Trichostrongylus colubriformis larvae, lambs (exper.), food intake and utilization after parasitic damage to small intestine, body weight changes, reduced host mineral metabolism

Diet, Host

Sykes, A. R.; and Coop, R. L., 1977, J. Agric. Sc., v. 88 (3), 671-677

Ostertagia circumcincta larvae, daily dosing of growing sheep, reduction of food intake and utilization resulting from abomasal damage; reduced weight gain

Diet, Host

Tizard, I. R.; Billett, J. B.; and Ramsden, R. O., 1976, *J. Wildlife Dis.*, v. 12 (3), 322-325

Toxoplasma gondii, antibody prevalence in wild mammals, apparent correlation with host consumption of rodents, possible importance of carnivorism as a route of transmission vs. oocyst-derived infection: Ontario, Canada

Diet, Host

Vray, B., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 255-256 [Letter]

Plasmodium berghei-infected mice (exper.), possible relationships between hepatosplenic and blood rates of para-aminobenzoic acid and parasite development, diet-deficiency study

Diet, Host

Wanchinga, D. M., 1977, *Virginia J. Sc.*, v. 28 (2), 69 [Abstract]

Amblyomma maculatum, attachment and development on host albino rats deficient in vitamins (A, K, thiamine) and minerals (Ca, Na)

Diet, Host

Wilhelm, W. E.; and Pope, D. C., 1974, *J. Protozool.*, v. 21 (3), 434-435 [Abstract]

Tritrichomonas muris, infections of laboratory colony of *Mesocricetus auratus* (caecum, small intestine, colon), hamsters fed high protein diet became trichomonad free, trichomonad-free hamsters showed higher mortality, weight loss, and fur thinning suggesting possible mutualistic relationship, successful transfaunation to laboratory and wild *Mus musculus*, reinfection of trichomonad-free *Mesocricetus auratus*, parasite morphology

Diet, Host

Wilson, R. A.; and Draskau, T., 1976, *Parasitology*, v. 72 (3), 245-257

Fasciola hepatica in *Lymnaea truncatula*, stimulation of daughter redia production by host starvation or by low or high temperature shocks, no evidence that presence of daughter rediae coincides with suppression of cercarial production

Diet, Parasite

Baker, R. A., 1977, *Parasitology*, v. 75 (3), 301-308

Unionicola intermedia, midgut caeca, contents, structure, function, relation to feeding activities of mite and tissue responses of its host (*Anodonta anatina*), parasite feeds on mucus and blood cells which are products of inflammatory response, parasite digestive enzymes are confined to intracellular vacuoles

Diet, Parasite

Brandal, P. O.; Egidius, E.; and Romslo, I., 1976, *Norwegian J. Zool.*, v. 24 (4), 341-343

Lepeophtheirus salmonis from *Salmo salar*, qualitative demonstration of host blood in parasite digestive tract

Diet, Parasite

Guttekova, A.; and Zmoray, I., 1975, *Biologia Bratislava*, s. B, *Zool.*, v. 30 (8), 605-614

Haemonchus contortus, ultrastructure of intestine, relationship to diet and metabolism; possibly phylogenetically young parasite in adaptation to host

Diet, Parasite

Halton, D. W., 1976, *Parasitology*, v. 73 (2), xxi-xxii [Abstract]

Calicotyle kroyeri vs. *Diclidophora merlangi*, examination of 3 organ systems with respect to nutrition, diet, feeding mechanism (foregut, gut caeca, tegument)

Diet, Parasite

Hopkins, D. E.; Chamberlain, W. F.; and Gingrich, A. R., 1976, *Ann. Entom. Soc. Am.*, v. 69 (3), 538-540

Bovicola limbatus, *B. ovis*, *B. crassiceps*, longevity, fecundity, population increases, in vitro testing on artificial diets, field-collected and in vitro-colonies compared

Diet, Parasite

Monteoliva Hernandez, M., 1973, *Rev. Iber. Parasitol.*, v. 33 (4), 599-606

Ascaris, motility studies in vitro, motility longer with glucose than when fasting; longer at 25° C than at 37° C; younger worms more active than mature ones

Diet, Parasite

Moore, M. N.; and Halton, D. W., 1976, *Exper. Parasitol.*, v. 40 (2), 212-224

Fasciola hepatica, enzyme histochemistry in juvenile vs. adult flukes and in infected mouse liver (cytopathological changes), effects of exper. starvation of flukes on levels of staining and distribution of hydrolytic enzymes

Diet, Parasite

Moorhouse, D. E., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 65-71

Argas persicus, larvae, feeding on chickens, histological studies, penetration by lysis, foreign body reaction, whole blood as diet throughout feeding, emigration of heterophils to surround mouthparts and mask them against foreign body reaction, example of adaptation tolerance; immunological response to salivary secretions not suppressed

Diet, Parasite

Srivastava, M.; and Gupta, S. P., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 271-273

Isoparorchis hypselobagri, trace element content (copper, zinc and iron), high iron content possibly related to feeding on blood

Digestion

Baker, R. A., 1977, *Parasitology*, v. 75 (3), 301-308

Unionicola intermedia, midgut caeca, contents, structure, function, relation to feeding activities of mite and tissue responses of its host (*Anodonta anatina*), parasite feeds on mucus and blood cells which are products of inflammatory response, parasite digestive enzymes are confined to intracellular vacuoles

- Digestion**
Bogitsh, B. J., 1977, *Exper. Parasitol.*, v. 43 (1), 180-188
Schistosoma mansoni, schistosomules, colchicine and vinblastine treatment, inhibition of feeding, ultrastructural changes in esophageal gland, effects on microtubules and secretion in this area
- Digestion**
Bogitsh, B. J.; and Carter, O. S., 1977, *J. Parasitol.*, v. 63 (4), 681-686
Schistosoma mansoni, esophageal secretory granules, ultrastructure, cytochemistry, effects of colchicine on cells, function undetermined but possibly involved with early stages of digestion of host red blood cells
- Digestion**
Bradbury, P. C.; and Goyal, V., 1976, *Tissue and Cell*, v. 8 (4), 573-582
Terebrospira chattoni, fine structure during ingestion of exoskeleton of Palaemonetes pugio, demonstration of extracellular acid phosphatase and acid phosphatase bound to cell membrane
- Digestion**
Bruce, R. G., 1976, *Parasitology*, v. 73 (2), xxiii [Abstract]
nutrition of nematodes
- Digestion**
Canale, A.; et al., 1972, *Atti Soc. Ital. Sc. Vet.*, v. 26, 306-310
Fasciola hepatica, calves, light experimental infection alone or in combination with gastrointestinal nematodes, digestive function not impaired
- Digestion**
Canale, A.; et al., 1973, *Ann. Fac. Med. Vet. Torino*, v. 20, Suppl., 72-82
Fasciola hepatica, calves (exper.), no strong variations in ability to digest diet as compared to controls, not an explanation for observed growth deficiencies
- Digestion**
Canale, A.; et al., 1977, *Folia Vet. Latina*, v. 7 (1), 82-90
Ostertagia ostertagi, calves (exper.), digestive utilization of host diet, results indicate that the diminished digestibility is not sufficient to account for the reduced growth
- Digestion**
Chapman, C. R.; and Coles, G. C., 1977, *Parasitology*, v. 75 (2), xxi [Abstract]
Fasciola hepatica, hydrolytic enzymes possibly involved in digestion
- Digestion**
Chappell, L. H., 1976, *Parasitology*, v. 73 (2), xxii [Abstract]
Schistosoma, Fasciola, relative nutritional roles of gut and tegument
- Digestion**
Ernst, S. C., 1975, *J. Parasitol.*, v. 61 (4), 633-647
Schistosoma mansoni, esophagus, cecum, tegument, digestive-absorptive functions, acid phosphatase activity, electron-dense tracers all ingested but none phagocytized
- Digestion**
Gabbay, S.; and Warburg, M. R., 1976, *J. Insect Physiol.*, v. 22 (9), 1291-1301
Ornithodoros tholozani, appearance of neurosecretory cells as related to feeding, blood digestion, mating, and oogenesis
- Digestion**
Halton, D. W., 1976, *Exper. Parasitol.*, v. 40 (1), 41-47
Diclidophora merlangi gut, sloughing of hematin cells occurs only rarely, any renewal of hematin cells takes place at a very low rate
- Digestion**
Halton, D. W.; and Stranock, S. D., 1976, *Internat. J. Parasitol.*, v. 6 (3), 253-263
Calicotyle kroeyeri, caecal epithelium, fine structure and histochemistry, single cell type functions in uptake and intracellular digestion of host epidermis and associated mucus
- Digestion**
Hurwitz, S.; Shamir, N.; and Bar, A., 1973, *Isotopes and Radiation Parasitol. III*, 61-65
Ascaridia galli-infected chicks, absorption and digestion of protein and absorption of phosphate from intestine
- Digestion**
James, B. L., 1976, *Parasitology*, v. 73 (2), xxii-xxiii [Abstract]
nutrition of marine Digenea in primary molluscan host
- Digestion**
Langreth, S. G.; and Balber, A. E., 1975, *J. Protozool.*, v. 22 (1), 40-53
Trypanosoma brucei, long slender and short stumpy bloodstream forms, culture forms, use of ferritin to study uptake and intracellular movement of protein, and of acid phosphatase to localize digestive activity cytochemically
- Digestion**
Lushbaugh, W. B.; et al., 1976, *Proc. 34. Ann. Meet. Electron Microsc. Soc. America*, 140-141
Entamoeba histolytica, endocytosis and digestion by trophozoites, electron microscopy
- Digestion**
Lushbaugh, W. B.; Kairalla, A. B.; and Pittman, F. E., 1976, *J. Protozool.*, v. 23 (2), 12A [Abstract]
Entamoeba histolytica, phagocytosis, ingestive and digestive processes studied ultrastructurally
- Digestion**
Mead, R. W., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 183-188
Hymenolepis diminuta, distribution of amylase activity within infected and uninfected rat intestine using starch substrate film method, no difference in relative amylase activity, results indicated that differences in starch digestion between infected and uninfected rats were not due to changes in distribution of intraluminal amylase along the small intestine

- Digestion
Moore, M. N.; and Halton, D. W., 1975, Ztschr. Parasitenk., v. 47 (1), 45-54
Fasciola hepatica, rediae, cercariae, histochemistry with particular emphasis on enzymes, localization in tegument and caecum suggests probable absorptive and digestive functions
- Digestion
Parkins, J. J.; Holmes, P. H.; and Bremner, K. C., 1973, Research Vet. Sc., v. 14 (1), 21-28
Ostertagia circumcincta, effects of different infection levels on feed intake, apparent digestibility, and nitrogen balance in Blackface sheep when fed rations of different nitrogen content
- Digestion
Perkatova, V. N., 1975, Dokl. Vsesoiuz. Akad. Sel'skokhoz. Nauk (10), 39-40
Gastrothylax crumenifer, morphology and physiology of tegument, intestine and saccus alimentarius, localization of non-specific esterase; adaptations to existence among dense papillae of rumen and glandular structure thereof
- Digestive system. [See also Biliary tract; Esophagus; Intestine; Mouth; Pancreas; Stomach]
- Digestive system
Baird, C. R.; and Akre, R. D., 1977, J. Entom. Soc. Brit. Columbia, v. 74, 27-31
Cuterebra tenebrosa, morphology of alimentary and reproductive tracts
- Digestive system
Bigorie, B.; et al., 1976, Nouv. Presse Med., v. 5 (13), 853-855
Strongyloides stercoralis in woman with resulting digestive tract complications and malabsorption syndrome, thiabendazole, clinical case report: France, immigrant from Guadeloupe
- Digestive system
Bogitsh, B. J., 1975, Tr. Am. Micr. Soc., v. 94 (4), 524-528
digenetic trematodes, digestive tract, gastrotrodermis, cytochemistry, surface amplifications, physiology, autophagy, review
- Digestive system
Bogitsh, B. J.; and Carter, O. S., 1977, Tr. Am. Micr. Soc., v. 96 (2), 219-227
Schistosoma mansoni schistosomules, in vitro development of digestive tract, ultrastructure of esophagus, esophageal gland, and cecum; ingestion of red blood cells stimulates 'dense granule' synthesis and increased growth of cecal region
- Digestive system
Borojevic, D.; and Movsesijan, M., 1973, Acta Parasitol. Iugoslavica, v. 4 (1), 51-56
Fasciola hepatica, morphogenesis in rabbits, 42 days post infection, genital organs not sufficiently developed to produce secretions for antigenic stimulation of host, but secretory caecal epithelium of digestive organs develops earlier, provides antigenic material during migratory and biliary system periods
- Digestive system
Ceneviva, R.; Modena, J. L. P.; and Castelfranchi, P. L., 1971, Medicina, Sao Paulo, v. 4 (2), 37-43
Chagas disease as a predisposing factor in the development of gastroduodenal ulcers in human infections
- Digestive system
Coulaud, J. P.; Pasticier, A.; and Saint-Louvent, P., 1976, Nouv. Presse Med., v. 5 (44), 3013-3014 [Letter]
human strongyloidiasis with accompanying acute epigastric distress, clinical aspects, thiabendazole
- Digestive system
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gastrointestinal parasites, *Gallus gallus*, review; *Eimeria* spp., extensive study of pathologic changes in host alimentary tract
- Digestive system
Crompton, D. W. T.; and Nesheim, M. C., 1976, Advances Parasitol., v. 14, 95-194
host-parasite relationships in alimentary tract of domestic birds, extensive review: nutrition of domestic birds; alimentary tract as habitat for parasites; alimentary tract of germ-free birds; parasite distribution within alimentary tract; relationships between parasites and host digestive physiology and nutrition
- Digestive system
Hairstone, M. A., 1972, Pahlavi Med. J., v. 3 (2), 303-305
Schistosoma mansoni, ultrastructural study of digestive system shows the digestive tract as major pathway for absorption of materials into parasite body
- Digestive system
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Calicotyle kroeyeri, foregut and associated glands, ultrastructure
- Digestive system
Iannucci, J. G., 1974, Med. Times, New York, v. 102 (10), 43-49
gastrointestinal hemorrhage as presenting symptom of human hookworm disease, clinical management, need for diagnostic awareness in non-endemic areas
- Digestive system
Koeberle, F.; et al., 1972, Medicina, Sao Paulo, v. 5 (1), 5-45
extensive review of pathologic findings associated with human *Trypanosoma cruzi* infections with emphasis on cardiovascular, respiratory and digestive systems, importance of destruction of nerve cells in acute phase of infections making it a problem of prevention rather than treatment of disease: Brazil

- Digestive system
Kvasz, L., 1971, *Ceskoslov. Pediat.*, v. 26 (4), 183-184
Lambliia intestinalis, gastrointestinal X-ray examination of infected children revealed ulceration of duodenal mucosa and functional disorders and irritation of upper digestive tract, possible relationships to lambliaosis, metronidazole therapy of parasites resulted in cure of ulceration
- Digestive system
Leclercq, M., 1974, *Medecine and Chir. Digest.*, v. 3 (2), 147-152
extensive review of myiasis of human gastrointestinal system
- Digestive system
Walker, A. C.; and Bellmaine, S. P., 1975, *Med. J. Australia*, v. 1 (24), 751-752
severe digestive tract hemorrhage in Aboriginal infants apparently associated with massive infestation of *Ancylostoma duodenale* with cessation of bleeding after administration of anthelmintic: Northern Territory, Australia
- Dimorphism. [See also Morphology; Polymorphism]
- Dimorphism
Araujo, P., 1975, *Ann. Parasitol.*, v. 50 (2), 167-172
Ascaris suum, third-stage larvae, sexual dimorphism in genital primordium and in internal structure of tail (rectal glands)
- Dimorphism
Baker, J. R.; Liston, A. J.; and Selden, L. F., 1976, *J. Gen. Microbiol.*, v. 97 (1), 113-115
Trypanosoma (Schizotrypanum) dionisii, trypomastigote dimorphism and satellite DNA, results exclude possibility of mixed populations of two species or subspecies
- Dimorphism
Fowler, J. L.; and Reeves, E. L., 1974, *J. Protozool.*, v. 21 (4), 538-542
microsporidan isolate previously considered to represent mixed infection of *Nosema necatrix* and *Thelophania diazoma* determined to be one species with spore dimorphism, electrophoretic protein profile of two spore types, temperature effects on ratio of mono- to octospores, recommended that name *Nosema necatrix* be retained for this isolate
- Dimorphism
Liston, A. J.; and Baker, J. R., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 274-275 [Demonstration]
Trypanosoma dionisii clone, trypomastigote dimorphism and satellite DNA
- Disease models, Animal. See Technique, Experimental hosts.
- Disease transmission. [See also Epidemiology; Epizootiology; Reservoir hosts; Sanitation and hygiene; Vectors]
- Disease transmission
Brooks, W. M., 1973, *Misc. Publication Entom. Soc. Am.*, v. 9 (2), 105-111
Nosema campoletidis, *N. heliothidis*, *N. cardiochilis*, insect host-insect parasite-protozoan pathogen interrelationships, transovarian transmission of protozoans by insect parasites and hyperparasites of pest insects
- Disease transmission
Clarkson, M. J.; and McCabe, W. J., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 12 [Demonstration]
Trypanosoma spp., relative susceptibility of mice to infection by buccal, gastric, or intraperitoneal routes, possible significance of oral transmission under natural conditions
- Disease transmission
Gwadz, R. W.; and Chernin, E., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 808-813
Brugia pahangi, exper. oral transmission to *Meriones unguiculatus*, suggests possibility that cryptic infection by mouth may represent component of epidemiology of filariasis and tropical pulmonary eosinophilia
- Disease transmission
Hausfater, G.; and Watson, D. F., 1976, *Nature, London* (5570), v. 262, 688-689
emission of parasite ova (primarily *Trichuris* and *Trichostrongylus*) by *Papio cynocephalus* in relation to host social and reproductive condition, high-ranking adult males had higher egg emission than more subordinate individuals, sexually cycling females had higher emissions than anoestrous females
- Disease transmission
Hawking, F., 1975, *Advances Parasitol.*, v. 13, 123-182
circadian and other rhythms of parasites, extensive review: rhythms depending on synchronous cell division, on discharge of infective forms, and on migrations of the same individuals; rhythmic migrations of intestinal worms; rhythms outside principal host; interrelation with rhythms of host environment; mathematical treatment; annual and other rhythms
- Disease transmission
Maddox, J. V., 1973, *Misc. Publication Entom. Soc. Am.*, v. 9 (2), 99-104
persistence of Microsporida, resistance of spores to environmental conditions, transmission and dispersal, host range and infectivity, effect of temperature on development
- Disease transmission
Ortega, M.; and Tay, J., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 6-11
Trypanosoma cruzi, laboratory trials comparing oral, ocular, conjunctival, nasal and skin scarification routes to infect albino mice

- Disease transmission
Raisanen, S.; and Koivukangas, J., 1976, Norwegian J. Zool., v. 24 (4), 458-459 [Abstract] *Toxoplasma gondii*, infectivity of trophozoites in body secretion examined by penetration through intact mucous membranes of mice, greater contamination hazard than previously known, easiest route of infection is intranasal
- Disease transmission
Soltys, M. A.; Thompson, S. M. R.; and Woo, P. T. K., 1973, Ann. Trop. Med. and Parasitol., v. 67 (4), 399-402
Trypanosoma Brucei, rats, guinea pigs, exper. transmission through skin and intact mucous membranes of conjunctiva, mouth, rectum, vagina; *T. congolense*, exper. transmission through same routes all failed
- Disease transmission
Sullivan, J. J.; and Chernin, E., 1976, Internat. J. Parasitol., v. 6 (1), 75-78
Brugia pahangi and *Dipetalonema viteae* compared, differences in oral vs. subcutaneous infection of anaesthetized vs. unanaesthetized adult vs. neonatal *Meriones unguiculatus*
- Disease transmission, Acarina. See Vectors, Acarina.
- Disease transmission, Air
Jaskiewicz, W.; and Soroczan, W., 1971, Pediat. Polska, v. 46 (1), 57-61
Enterobius vermicularis infection in children (80%) and personnel (50%) of institution for children with impaired vision, samples of dust and air and bed linens also showed contamination, clinical report: Lublin, Poland
- Disease transmission, Air
Nellis, D. W., 1977, J. Parasitol., v. 63 (1), 178-179
Cochliomyia hominivorax, transmission by trade winds with typical and atypical directions, hypothesized route of wind-assisted screwworm range extension: Puerto Rico; Vieques; Virgin Islands
- Disease transmission, Animal to animal
Akbarzadeh, M.; Hinrichsen, J. K.; and Sommer, H., 1976, Tierarztl. Umschau, v. 31 (8), 363-366
endoparasite incidence in lambs raised under 3 different management systems (normal; early weaning; without dams), highest incidence in those under normal system
- Disease transmission, Animal to animal
Ayala, S. C.; and Wells, E. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 76 [Letter]
Trypanosoma evansi, possible role of vampire bats in epidemiology of parasite infection in cattle and horses; disappearance of previously identified *T. evansi* strain from bat colony: western Colombia
- Disease transmission, Animal to animal
Banaja, A. A.; James, J. L.; and Riley, J., 1976, Parasitology, v. 72 (1), 81-91
Reighardia sterna implanted into gulls, low egg production, short patent period, low fecundity offset by auto-reinfection and possibly by direct transmission from bird to bird
- Disease transmission, Animal to animal
Barker, R. J., 1973, J. Protozool., v. 20 (4), 524
Encephalitozoon cuniculi, no evidence of transmission from mother to young transplacentally, perinatally, or by post-natal contact
- Disease transmission, Animal to animal
Barrowman, P. R., 1976, Onderstepoort J. Vet. Research, v. 43 (2), 55-65
Trypanosoma equiperdum in naturally infected horses, transmission studies, clinical symptoms and lesions, localization of parasite, host immune response, methods for parasite detection, varying results of chemotherapy with MSBE; attempts to infect rats, rabbits, and a dog were unsuccessful: South Africa
- Disease transmission, Animal to animal
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Marshallagia marshalli, other trichostrongylids, incidence and intensity in *Ovis aries* under 3 types of management (farm flocks, fenced range, and seasonally herded range) and in wild *Antilocapra americana*; evidence for transmission of *M. marshalli* from antelope to sheep where range is shared: Wyoming
- Disease transmission, Animal to animal
Bledsoe, B., 1976, J. Protozool., v. 23 (3), 365-367
Isospora vulpina, exper. transmission from *Vulpes vulpes* to *Canis familiaris*
- Disease transmission, Animal to animal
Borroni, I.; and Grimaldi, E., 1974, Riv. Parasitol., v. 35 (4), 261-276
Diphyllbothrium latum, ecology of plerocercoid infection in fish, incidence and intensity, interplay of various factors (host species, host size (age), mechanism of infection (eating copepods vs. eating other fish), parasite size, muscular vs. visceral localization, site on lake in relation to human concentration): Lago Maggiore
- Disease transmission, Animal to animal
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8 helminth species in *Rana ridibunda* fed to *Natrix natrix* or *N. tessellata*, found that *Diplodiscus subclavatus*, *Opisthioglyphe ranae*, *Cephalogonimus retusus*, and *Cosmocerca ornata* can pass alive from body of ingested frog to intestine of *Natrix natrix*, and *D. subclavatus* to *N. tessellata*

- Disease transmission, Animal to animal
Bura, M. W. T.; and Willett, W. C., 1977, East African Med. J., v. 54 (4), 185-193
Trichinella spiralis, extensive epidemiologic survey of trichinosis outbreak (11 persons of whom 2 died of infection) in Iraqw native tribe, source of infection probably a warthog killed and shared by 4 families, potential increasing public health problem if domestic pigs come in contact with carcasses of infected wild pigs: Tanzania
- Disease transmission, Animal to animal
Carvalho, A. L. M.; and Deane, M. P., 1974, J. Protozool., v. 21 (1), 5-8
Trypanosomatidae isolated from Zelus leucogrammus, only Blastocrithidia thought to be a parasite proper of this host spread by cannibalism and ingestion of cysts, other trypanosomatids acquired by feeding on insect prey: Brazil
- Disease transmission, Animal to animal
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- Disease transmission, Animal to animal
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similarity index of helminth faunas of 7 passerine bird species, index of association of 10 species of helminths identified as having foci of infection, competition for invertebrate food resources and aggregation into mixed feeding flocks maximizes transmission: South Bass Island, Ottawa County, Ohio
- Disease transmission, Animal to animal
Curtin, S.; Ferriere, G.; and Cerda, J., 1975, Bol. Chileno Parasitol., v. 30 (3-4), 65-67
Fasciola hepatica, Oryctolagus cuniculus as possible reservoir host for livestock infections, survey for infection prevalence and localization in host liver: Malleco Province, Chile
- Disease transmission, Animal to animal
Daddow, K. N.; and Dunlop, L. B., 1976, Queensland J. Agric. and Animal Sc., v. 33 (2), 233-236
Eperythrozoon ovis, sheep, detection by complement fixation test and stained thin blood smears, ewes appeared to be source of infection for lambs, possible role of sandflies and mosquitoes in mode of transmission
- Disease transmission, Animal to animal
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reptilian amebiasis, fatal epizootic, possible cause of many previous snake deaths, pathologic changes, probable mode of introduction and spread, treatment (metronidazole successful) and prophylaxis, amebae identified as or presumed to be Entamoeba invadens: Steinhart Aquarium, California Academy of Sciences, Golden Gate Park, San Francisco
- Disease transmission, Animal to animal
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Hammondia hammondi, life cycle and transmission: tachyzoites are noninfectious to cats, infectivity being associated with cysts formed by the 10th day of mouse infection; more cysts found in mouse muscle than in brain, less frequent occurrence in spleen, liver, lungs, lymph nodes; absence of congenital transmission in mice; oocysts noninfectious to chickens
- Disease transmission, Animal to animal
Dukic, Z.; et al., 1976, Vet. Glasnik, v. 30 (7), 629-635
Trichinella spiralis, distribution, routes of infection in wild and domestic swine and man, rats and foxes as possible vectors: Serbia
- Disease transmission, Animal to animal
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helminths and coccidians of Ovis ammon musimon and Capreolus capreolus, intensity variation with age of host, lack of evidence for parasite exchange between mouflons and roe deer: School Forest Enterprise, University of Agriculture Brno, Krtiny
- Disease transmission, Animal to animal
Farhang-Azad, A., 1977, J. Parasitol., v. 63 (4), 701-706
Capillaria hepatica, egg-releasing mechanisms and transmission ecology among Norway rat populations, cannibalism serves as primary egg-releasing mechanism with secondary role played by predators and normal death and decomposition, minor role of carrion insects and soil invertebrates: Baltimore Zoo
- Disease transmission, Animal to animal
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persistence of viable Toxoplasma gondii oocysts in soil up to 18 months in Kansas and 1 year in Costa Rica, experimentally buried infected cat feces; Musca fly, Armadillium sp., earthworms acted as transport hosts with earthworm possibly also vector as food for birds; seasonal distribution, effects of weather on infectivity
- Disease transmission, Animal to animal
Gallie, G. J.; and Nunns, V. J., 1976, J. Helminth., v. 50 (2), 79-89
Dictyocaulus filaria, different seasons, development and survival of free-living larvae on pasture, transmission of infection between lambs: North-East England
- Disease transmission, Animal to animal
Gemmell, M. A., 1976, Research Vet. Sc., v. 21 (2), 220-222
Taenia hydatigena, estimations of build-up and dispersion patterns of eggs on a lamb pasture after introduction of infected dogs, implications for animal management practices

- Disease transmission, Animal to animal
Gemmell, M. A.; and Macnamara, F. N., 1976, Research Vet. Sc., v. 21 (2), 215-219
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- Disease transmission, Animal to animal
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Filaroides hirthei, dogs (exper.), transmission through ingestion of first-stage larvae, theoretical possibility of autoinfection
- Disease transmission, Animal to animal
Ghazal, A. M.; and Avery, R. A., 1976, Parasitology, v. 73 (1), 39-45
Hymenolepis nana, white mice, transmission rate, exposure in small cages to parasite eggs or to feces from infected mice, increased likelihood of infection with prior host starvation probably due to increased coprophagy
- Disease transmission, Animal to animal
Grootenhuis, J. G.; et al., 1975, J. Wildlife Dis., v. 11 (1), 122-127
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- Disease transmission, Animal to animal
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Haemobartonella felis and/or *Eperythrozoon felis*, feline infectious anaemia, relative risk according to age, sex and breed of cats, prior disease, seasonal occurrence, mortality, pattern of risk suggests horizontal transmission probably by direct contact
- Disease transmission, Animal to animal
Hysek, J.; and Zizka, Z., 1976, Nature, London (5552), v. 260, 608-609
experimental transmission of *Trypanosoma rotatorium* from frogs to white mice by inoculation of blood, development of infection and morphology in mice
- Disease transmission, Animal to animal
Ito, A., 1977, J. Parasitol., v. 63 (1), 167-168
Hymenolepis nana, simple method for collecting infective cysticercoids from mouse intestine, results suggest mouse to mouse indirect cycle
- Disease transmission, Animal to animal
Ito, S.; and Taniguchi, R., 1976, Nippon Zyuishi-Kai Zassi (J. Japan. Vet. Med. Ass.), v. 29 (11), 616-619
Dictyocaulus viviparus, calf, possible contact infection in calves living in same pen
- Disease transmission, Animal to animal
Ito, S.; and Tsunoda, K., 1975, Japan Agric. Research Quart., v. 9 (4), 221-224
piglets inoculated with 2 strains of *Toxoplasma* oocysts: natural transfer to uninfected piglets in same pen, exper. transfer to mice from infected visceral organs of piglets; piglets nat. and exper. infected with toxoplasmosis by feeding on leaf-moulds contaminated with cat feces, treatment with 2-sulfamoyl-4,4'-diaminodiphenyl-sulfone (SDDS)
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- Disease transmission, Control
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human parasitism resulting from increased travel to tropical areas, economic importance, control measures, prophylactic drugs available, diagnostic awareness, review
- Disease transmission, Control
Slonka, G. F.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (5), 739-743
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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human congenital toxoplasmosis, suggested prophylactic measures, abnormalities observed in congenitally infected children
- Disease transmission, Control
Thompson, R. G.; et al., 1977, *Brit. Med. J.* (6074), v. 1, 1468 [Letter]
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
Upatham, E. S., 1976, *Internat. J. Parasitol.*, v. 6 (3), 239-245
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
Vilaseca, G. C.; et al., 1966, *Vox Sanguinis*, v. 11 (6), 711-716
Trypanosoma cruzi, application of crystal violet dye to blood bank donor blood prevents transfusional transmission of Chagas disease
- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
Webber, R. H., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (3), 430-434
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- Disease transmission, Control
Webber, R. H., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 396-400
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- Disease transmission, Control
Weise, H. J., 1976, *Munchen. Med. Wchnschr.*, v. 118 (35), 1061-1068
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- Disease transmission, Control
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Toxoplasma gondii, human latent uterine toxoplasma infections with resulting congenital transmission, prospects for diagnosis, need for antitoxoplasma treatment of women who have had habitual abortions or suspected infections
- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
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- Disease transmission, Control
Yokogawa, M., 1974, *Internat. Med. Found. Japan. Reporting series* (4), 83-99
Schistosoma japonicum in humans and domestic animals, epidemiology, control measures, geographic distribution in Japan and Far East
- Disease transmission, Control
Yokogawa, M., 1974, *Internat. Med. Found. Japan. Reporting series* (4), 137-149
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- Disease transmission, Control
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Schistosoma japonicum, humans, review of current control measures, including snail control with molluscicides: Japan
- Disease transmission, Control
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- Disease transmission, Feces. [See also Manure; Night soil]
- Disease transmission, Feces
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Nosema kingi, fecal and transovarial transmission in Drosophila willistoni, infectivity to other hosts

Disease transmission, Feces

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Toxoplasma gondii, sheep (exper.), faecal transmission to mice unsuccessful

Disease transmission, Feces

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Giardia lamblia, severe diarrhea affecting 54% of children in day care center, suggestion of fecal-oral transmission from child to child and from infected children to their families, also possibility of infected fomites, epidemiologic survey: Georgia

Disease transmission, Feces

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survey of various methods used by rural households to dispose of human excreta, public health implications in spread of human helminths: Malaya

Disease transmission, Feces

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survey of rural Malay community for beliefs and practices regarding Ascaris lumbricoides infections, poor sanitation and tribal practices aid in spread of infections: Malaysia

Disease transmission, Feces

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Toxoplasma gondii, sporulation of oocysts not affected or only slightly by passage through intestinal tracts of cockroaches, cat feces acceptable food for cockroaches, results suggest potential of cockroaches as transport hosts: Costa Rica

Disease transmission, Feces

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Disease transmission, Feces

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survival of resistant external stages of parasites during fermentation of liquid cattle manure at high temperatures

Disease transmission, Feces

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Disease transmission, Feces

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Toxoplasma gondii, oocysts from cat feces, maintained at room temperature for intervals of up to one year, infective to mice

Disease transmission, Feces

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Taenia hydatigena, sheep allowed to graze pasture before and after removal of infected dogs, factors regulating worm populations (infection pressure, index of egg clustering, survival rate of cysts), model for epidemiological studies

Disease transmission, Feces

Georgi, J. R.; Georgi, M. E.; and Cleveland, D. J., 1977, Parasitology, v. 75 (2), 251-257
Filarioides hirthei, dogs (nat. and exper.), diagnosis, zinc sulphate flotation more efficient than Baermann technique in concentrating larvae from feces, larvae recovered from feces proved infective and it was concluded that infection can be transmitted directly and immediately by fresh fecal contamination, mongrel dogs as well as beagles can be infected, finding of larvae in mesenteric lymph nodes long after single exposure to exogenous infection supports hypothesis of autogenous re-infection of host by pre-portion of larvae migrating from lungs to anus

Disease transmission, Feces

Ghadrizian, E.; et al., 1976, Canad. J. Pub. Health, v. 67 (6), 495-498
human toxocarasis, prevalence survey of Toxocara spp. and other helminth ova in dogs and soil from city parks, larvae survival over winter months results in continuing contamination of soil and increasing public health problem: Montreal

Disease transmission, Feces

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Trichostrongylus spp., man and domestic animals, present status in Iran, means of transmission

Disease transmission, Feces

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Hymenolepis nana, white mice, transmission rate, exposure in small cages to parasite eggs or to feces from infected mice, increased likelihood of infection with prior host starvation probably due to increased coprophagy

Disease transmission, Feces

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survey of enteric parasites isolated from Vietnamese children immigrating by airlift into the United States and their transmission to volunteers caring for refugees: San Francisco

- Disease transmission, Feces
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Trichuris trichiura, Ascaris lumbricoides and Entamoeba histolytica, fecal survey of nursing staff and inmates of hospital for mentally retarded for presence of intestinal parasites: Groot Schuylenburg, Apeldoorn, Netherlands
- Disease transmission, Feces
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pathogenic parasitism discovered in immigrant food handlers, public health implications, hygiene measures implemented by employing food factory: England
- Disease transmission, Feces
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eosinophilic cystitis in 4-year-old child probably associated with echinococcal infections (eggs of Echinococcus granulosus found in pet dog's feces and child had strongly positive Casoni reaction): Australia
- Disease transmission, Feces
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Toxoplasma gondii, proportionate participation of cysts (ingested with food) vs. oocysts (contact with contaminated feces) in transmission of toxoplasmosis to man
- Disease transmission, Feces
Idowu, L.; and Olotu, O., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (3), 262
Cordylobia anthropophaga, furuncular myiasis affecting a dog and its owners, case report, public health importance of proper disposal of dog excreta: Apapa, Nigeria
- Disease transmission, Feces
Ito, S.; and Tsunoda, K., 1975, Japan Agric. Research Quart., v. 9 (4), 221-224
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- Disease transmission, Feces
Iversen, E. S.; and Kelly, J. F., 1976, J. Invert. Path., v. 27 (3), 407-408
successful transmission of Thelohania penaei by feeding infected trout feces to pink shrimp: Biscayne Bay
- Disease transmission, Feces
Jones, H. I., 1976, Papua N. Guinea Med. J., 1976, v. 19 (3), 153-155
pigs as important factor in spread of Ascaris lumbricoides by eating human feces containing Ascaris eggs which then pass unharmed through pig digestive system and are spread widely in human environment; human hookworm eggs largely destroyed in pig digestive system thereby effectively reducing human exposure to hookworm larvae: Papua New Guinea
- Disease transmission, Feces
Lamas, R.; et al., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 74-77
cutaneous larva migrans (possible Ancylostoma caninum origin) in city garbage collector successfully treated with thiabendazole, transmission of infection probably from fecal-contaminated material associated with occupation: Santiago, Chile
- Disease transmission, Feces
Landau, I.; et al., 1975, Compt. Rend. Acad. Sc., Paris, v. 281, s. D, Sc. Nat. (22), 1721-1723
Eimeria sp., crustacean infected with oocysts from fish feces, freed sporozoites remain as latent stage in intestinal wall; possible alimentary pyramid concentrating infective forms in aquatic environment
Gymnothorax moringa "murene" (foie, intestin): Petit Bourg, Guadeloupe
Mysidacea (intestinal wall) (exper.)
- Disease transmission, Feces
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- Disease transmission, Feces
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Entamoeba histolytica, humans, extensive epidemiologic review of human amoebiasis with comparative study of environmental and sociologic factors of 2 Amerindian reservations one of which had a high prevalence of infection and the other none
- Disease transmission, Feces
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human behavior in the transmission of parasitic diseases, review
- Disease transmission, Feces
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Balantidium coli infections in West Irian highland natives who maintain intimate living association with domestic pigs, case reports, medical management: Papua New Guinea
- Disease transmission, Feces
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Toxocara canis, Toxascaris leonina, prevalence of ova in dog faeces deposited on streets, potential human health hazard: Leeds, England
- Disease transmission, Feces
Rifaat, M. A.; et al., 1976, J. Trop. Med. and Hyg., v. 79 (3), 67-70
seroepidemiologic survey of stray cats for Toxoplasma gondii antibodies and role in epidemiology of human infection, no cross-immunity with Isospora spp. in relationship study, high percentage of cats surveyed shedding oocysts in feces: Cairo, Egypt

- Disease transmission, Feces
Ruiz, A.; and Frenkel, J. K., 1977, J. Parasitol., v. 63 (5), 931-932
Toxoplasma isolated from cat feces deposited in false attics of homes, survival of oocysts under these conditions in field experiments, possible role in transmission: Costa Rica
- Disease transmission, Feces
Sengbusch, H. G.; and Sengbusch, L. A., 1976, Am. J. Epidemiol., v. 103 (6), 595-597
comparative survey for prevalence of Toxoplasma gondii antibodies in veterinary personnel and selected population with no exposure to cats; hygiene, type of association, duration of exposure and infectivity of cats as considerations for disease transmission
- Disease transmission, Feces
Shaw, P. K.; et al., 1977, Ann. Int. Med., v. 87 (4), 426-432
Giardia lamblia, communitywide outbreak of human giardiasis with incrimination of public water supply as source of contamination, possibility of water supply contaminated by human waste; cyst found in water supply and dogs experimentally infected with samples of raw water from the city reservoir: Rome, New York
- Disease transmission, Feces
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statistical epidemiologic survey of endemic human amoebiasis area, household crowding, poor sanitation and resulting fecal contamination implicated as cause of transmission
- Disease transmission, Feces
Upatham, E. S., 1972, Southeast Asian J. Trop. Med. and Pub. Health, v. 3 (4), 600-604
Schistosoma mansoni, egg-infested human feces deposited in natural and standing and running water habitats containing Biomphalaria glabrata (exper.), tests of how soon and for how long eggs would hatch showed that hatchability of eggs was high but only a few miracidia successfully infected snails
- Disease transmission, Food
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- Disease transmission, Food
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trichinosis, acute fatal infection in woman who at autopsy was found to have extensive ventricular endocardial damage with superimposed thrombosis, was known to have eaten raw meat frequently, clinical and morphologic report, review of other autopsies for other trichinosis-associated heart involvements
- Disease transmission, Food
Aparicio Garrido, J.; et al., 1972, Med. Trop., Madrid, v. 48 (1-2), 11-23
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- Disease transmission, Food
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Angiostrongylus cantonensis in mollusks and planarians occurring in market gardens supplying fresh produce; marked seasonal occurrence of planarians during cool months corresponds to peak vegetable growing season, important source of human infection: near Noumea, New Caledonia
- Disease transmission, Food
Bakke, T. A., 1972, Norwegian J. Zool., v. 20 (3), 165-188
Digenea of Larus canus, incidence and intensity, age of host, seasonal variation, distribution in alimentary canal; relationship to host habitat, food, and breeding behavior: Norway
- Disease transmission, Food
Bakke, T. A., 1972, Norwegian J. Zool., v. 20 (3), 189-204
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- Disease transmission, Food
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Trichinella spiralis, outbreak in campers after eating roasted wild pig, diagnosis by eosinophilia and sero-immunologic studies; diagnostic test comparisons, skin-test antigen inconclusive: California (infected in Hawaii)
- Disease transmission, Food
Beauvais, P.; et al., 1974, Pediatrie, v. 29 (6), 615-625
acquired toxoplasmosis, hepatic manifestation of infection in 8 of 10 family members, contaminated meat from sheep probable source of infection, clinical aspects: France
- Disease transmission, Food
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Alaria-like previously undescribed species of subfamily Alariinae, mesocercaria removed from each of two intradermal swellings on thigh and iliac crest of man, morphologic features, infection probably resulted from ingestion of raw or undercooked game animal (probably raccoon): Louisiana
- Disease transmission, Food
Bisseru, B.; Gill, S. S.; and Lucas, J. K., 1972, Med. J. Malaya, v. 26 (3), 164-167
first reported case of human eosinophilic meningoencephalitis in West Malaysia, history of eating raw prawns and salad greens, diagnosis, case report: Kuala Lumpur

- Disease transmission, Food
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role of seals as definitive hosts of *Terranova decipiens*, larvae of which are found in cod and other commercially prepared seafood
- Disease transmission, Food
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8 helminth species in *Rana ridibunda* fed to *Natrix natrix* or *N. tessellata*, found that *Diplodiscus subclavatus*, *Opisthioglyphe ranae*, *Cephalogonimus retusus*, and *Cosmocerca ornata* can pass alive from body of ingested frog to intestine of *Natrix natrix*, and *D. subclavatus* to *N. tessellata*
- Disease transmission, Food
Bura, M. W. T.; and Willett, W. C., 1977, *East African Med. J.*, v. 54 (4), 185-193
Trichinella spiralis, extensive epidemiologic survey of trichinosis outbreak (11 persons of whom 2 died of infection) in Iraqw native tribe, source of infection probably a warthog killed and shared by 4 families, potential increasing public health problem if domestic pigs come in contact with carcasses of infected wild pigs: Tanzania
- Disease transmission, Food
Burridge, M. J.; and Schwabe, C. W., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (2), 258-265
Echinococcus granulosus, dynamics of epidemiologic survey of Maori people, cultural and behavioral factors together with poor dog control result in higher incidence in Maoris than in non-Maoris: New Zealand
- Disease transmission, Food
Cabrera, B. D.; and Fevidal, P. M., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (1), 39-45
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- Disease transmission, Food
Cattan, P. E.; and Videla, N. N., 1976, *Bol. Chileno Parasitol.*, v. 31 (3-4), 71-74
Anisakis sp., survey of parasitized *Trachurus murphyi* (cavidad celomatica, mesenterios, estomago, intestino, gonadas), relationship between size of fish and frequency of parasitism, potential for human infection through fish consumption: puertos de Arica e Iquique, Chile
- Disease transmission, Food
Chen, S.-N., 1975, *Bull. Inst. Zool., Acad. Sinica*, v. 14 (2), 109-113
Angiostrongylus cantonensis as possible cause of human cases of eosinophilic meningitis, immunoglobulins and leucocytes in blood and cerebrospinal fluid, antibody to *A. cantonensis*, evidence for specific immune response, history of eating raw *Achatina fulica*
- Disease transmission, Food
Chitwood, M., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (4), 710-711
Phocanema-type larva coughed up by boy who 4 days earlier had eaten marinated raw fish, case report: California
- Disease transmission, Food
Chung, H. L.; et al., 1975, *Scientia Sinica*, v. 18 (6), 785-814
Paragonimus hueitungensis sp. nov., life history, pathogenicity, case reports in children, transmission by raw or undercooked crabs
- Disease transmission, Food
Cross, J. H.; et al., 1976, *Trop. and Geogr. Med.*, v. 28 (4), 355-358
Toxoplasma gondii, seroepidemiologic survey of domestic animals for haemagglutinating antibodies, goats used as meat animals found to have high titers, possible role in transmission to man: Indonesia
- Disease transmission, Food
Daengsvang, S.; Sangsingkeo, P.; and Senivong-Na-Ayudhaya, B., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (2), 260-262
Gnathostoma spinigerum larva excised from finger of man who had symptoms of migratory swelling, pain and itching over left forearm for 2 years, possible transmission by consumption of partially cooked chicken: Thailand
- Disease transmission, Food
Dallochio, M.; et al., 1974, *Nouv. Presse Med.*, v. 3 (16), 1034 [Letter]
distomiasis in man with resulting endomyocardial fibrosis, history of eating water cress, clinical case report: France
- Disease transmission, Food
Dall'Orso, L. M.; et al., 1975, *Bol. Chileno Parasitol.*, v. 30 (1-2), 30-31
human enteroparasites or commensals, 59.3% positive findings in stool survey of 169 food handlers: Concepcion, Chile
- Disease transmission, Food
Davis, M. J.; et al., 1976, *Neurology*, v. 26 (1), 37-40
Trichinella spiralis in man, severe muscle involvement (4,046 larvae per gram of muscle), clinical case report, history of frequent consumption of pickled pigs' feet, recovery after thiabendazole given concomitantly with prednisone: New York City
- Disease transmission, Food
Dujšin, M.; and Pasini, J., 1972, *Medicinar. Zagreb*, v. 23 (1-2), 9-19
extensive clinical review of human *Toxoplasma gondii*, life cycle, transmission via infected meat, diagnosis, prophylaxis

Disease transmission, Food

Duncan, N., 1976, Mammal Rev., v. 6 (2), 63-74
Skrjabin *gylus nasicola*, theoretical aspects of transmission to stoats and weasels based on laboratory study of food habits under conditions of food abundance and food shortage; extent of skull damage in weasels

Disease transmission, Food

Durfee, P. T.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (1), 42-47
Toxoplasma gondii, man and animals, sero-epidemiologic survey, consumption of undercooked goat meat appears to be significant source of infection: South Kalimantan (Borneo), Indonesia

Disease transmission, Food

Fassi-Fehri, M., 1969, Maroc Med. (530), v. 49, 727-736
human parasitic diseases acquired by ingesting food of animal origin, clinical review

Disease transmission, Food

Fayer, R., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 138-140
Sarcocystis-infected beef obtained at slaughter or from retail food stores, effect of refrigeration, cooking, and freezing on infectivity to dogs, "the potential for transmission of *Sarcocystis* to humans and their pets by fresh beef clearly exists."

Disease transmission, Food

Feizullaev, N. A.; Litvinov, V. P.; and Litvinov, V. F., 1977, Dokl. Akad. Nauk Azerbaidzhan. SSR, v. 33 (2), 61-62
Trichinella spiralis, prevalence in predatory mammals, wild boars sold for meat as potential source of human infection: Kyzyl-Agach reservation

Disease transmission, Food

Fernandes, B. J.; et al., 1976, Canad. Med. Ass. J., v. 115 (11), 1111-1114
Alaria americana mesocercariae, massive infection in man with parasites present throughout body, bithionol therapy unsuccessful, diagnosis by lung biopsy confirmed at autopsy, infection probably from eating undercooked frogs' legs, generalized immunologic reactions, clinical report: Ontario, Canada

Disease transmission, Food

Ford, G. E., 1974, Austral. Vet. J., v. 50 (1), 38-39
Sarcocystis sp., prey-predator transmission in ovine sarcosporidiosis, specific pathogen free dogs fed fresh meat from lambs containing cysts

Disease transmission, Food

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human *Taenia solium* with cysticercus identified in flow region of ophthalmic artery, 5 case reports, some patients gave history of eating undercooked pork, 2 were vegetarians: India

Disease transmission, Food

Freeman, R. S.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 803-807
Alaria americana, fatal human infection, several thousand mesocercariae extensively distributed throughout body, death resulted from asphyxiation due to extensive pulmonary hemorrhage probably caused by immune-mediated mechanisms, circumstances suggest inadequately cooked frog legs as source of infection, *Rana clamitans*, *R. pipiens*, *R. catesbiana*, and *Thamnophis sirtalis* in vicinity of family farm found to be infected with *Alaria* spp.: Ontario, Canada

Disease transmission, Food

Frescura, T.; Ambrosi, M.; and Polidori, G. A., 1972, Parassitologia, v. 14 (1), 129-135
Toxoplasma gondii, swine blood samples tested by immunofluorescence, some positive cases confirmed by isolating organism in mice; incidence of 18.3% indicates swine meat may be important source of disease spread: Perugia

Disease transmission, Food

Fribourg-Blanc, A.; Bois, E.; and Feingold, J., 1975, Medecine et Malad. Infect., v. 5 (10), 502-507
toxoplasmosis, epidemiologic survey of Amerindian tribes in French Guiana, implication of wild animals used as food source as possible reservoir hosts

Disease transmission, Food

Gold, B. M.; and Meyers, M. A., 1977, Am. J. Roentgenol., v. 128 (3), 493-494
Taenia saginata, case report of tapeworm in butcher who routinely ate raw beef, radiologic manifestations and differentiation from *Ascaris lumbricoides* as seen on X-ray, atabrine: New York City

Disease transmission, Food

Goldsmith, R.; et al., 1976, J. Am. Med. Ass., v. 235 (19), 2114-2116
survey of enteric parasites isolated from Vietnamese children immigrating by airlift into the United States and their transmission to volunteers caring for refugees: San Francisco

Disease transmission, Food

Griffiths, W. E., 1976, N. Zealand J. Marine and Freshwater Research, v. 10 (3), 533-536
Hedreris spinigera in *Perca fluviatilis* (stomach), high rate of infestation when perch fed on *Retropinna retropinna*, rapid decline when this food source no longer available: Selwyn River, New Zealand

Disease transmission, Food

Hall, A. P.; Ridley, D. S.; and Thomas, J. R. L., 1976, Brit. Med. J. (6024), v. 1, 1542
pathogenic parasitism discovered in immigrant food handlers, public health implications, hygiene measures implemented by employing food factory: England

- Disease transmission, Food
Harinasuta, C.; et al., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 530-552
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- Disease transmission, Food
Hauck, A. K., 1977, J. Parasitol., v. 63 (3), 515-519
Anisakis sp. larvae in *Clupea harengus palasi* from Yaquina Bay, Oregon, effects of various methods of handling and processing (fresh, frozen, brine, cold smoked, and cold smoked-gibbed) on migration into and survival in flesh of fish, implications for transmission to humans
- Disease transmission, Food
Heydorn, A. O., 1977, Arch. Lebensmittel-Hyg., v. 28 (1), 27-31
Sarcocystis bovi-hominis, *S. bovicanis*, exper. human infection from raw beef, minor symptoms; *S. sui-hominis*, exper. human infection from raw pork, severe symptoms, parasite pathogenic or toxic
- Disease transmission, Food
Hoerning, B., 1977, Schweiz. Arch. Tierh., v. 119 (8), 337-339
raw horse meat as a probable source of human trichinosis: Italy and France
- Disease transmission, Food
Horwitz, M. A.; and Hughes, J. M., 1976, J. Infect. Dis., v. 134 (3), 306-312
Trichinella spiralis, *Toxoplasma gondii*, Anisakidae, implicated in human food borne diseases in United States, compiled for 1974 by Center for Disease Control, Atlanta
- Disease transmission, Food
Huang, C. T.; et al., 1969, Nettai Igaku (Trop. Med.), v. 11 (3), 136-144
epidemiologic survey of post-mortem examinations and fecal specimens from hospital patients for intestinal helminths; incidence of clonorchiasis remains stable due to custom of eating raw fish; soil nematode infections decreasing with improved sanitation: Hong Kong
- Disease transmission, Food
Huebner, J.; and Uhlikova, M., 1974, J. Protozool., v. 21 (3), 455-456 [Abstract]
Toxoplasma gondii, proportionate participation of cysts (ingested with food) vs. oocysts (contact with contaminated feces) in transmission of toxoplasmosis to man
- Disease transmission, Food
Hughes, J. M.; Merson, M. H.; and Pollard, R. A., jr., 1975, J. Infect. Dis., v. 132 (2), 224-228
summary of data from food-borne disease outbreaks in the United States reported to the Center for Disease Control in Atlanta, Ga., in 1973, includes cases of *Trichinella spiralis*
- Disease transmission, Food
Imperato, P. J.; et al., 1977, N. York State J. Med., v. 77 (1), 50-56
human parasitic infections, epidemiologic and incidence survey in New York City, decreased incidence of total parasitism but parasites associated with overseas travel and immigration still are prevalent
- Disease transmission, Food
Islam, N., 1977, Lancet, London (8027), v. 2, 33 [Letter]
human echinococcosis, survey of stray dogs (gastrointestinal tract) and cattle (liver, lungs, spleen) slaughtered for human consumption showed both to be infected; public health implications for human infection in Dacca, Bangladesh
- Disease transmission, Food
Islam, N.; Rashid, H.-u.; and Cuellar, C. B., 1977, Ann. Trop. Med. and Parasitol., v. 71 (2), 239-241
Echinococcus granulosus, survey of slaughter animals at local abattoirs, dogs as suspect definitive host in city areas: Dacca, Bangladesh
- Disease transmission, Food
Ito, S.; and Tsunoda, K., 1975, Japan Agric. Research Quart., v. 9 (4), 221-224
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- Disease transmission, Food
Jones, E. A.; et al., 1977, Am. J. Med., v. 63 (5), 836-842
Fasciola hepatica, massive infection in man (ova in feces) who frequently ate wild watercress (suitable habitat and infected snail hosts found near source of watercress), extensive clinical case report, successful therapy with bithionol after incomplete cure using chloroquine: Northwest England
- Disease transmission, Food
Juels, C. W.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (6, pt. 1), 942-944
Phocanema sp. larva coughed up from throat of man several days after he had eaten raw fish, case report, evidence of possible temporary tissue invasion because of mild transitory eosinophilia: California
- Disease transmission, Food
Kagei, N.; Kihata, M.; and Hirayama, T., 1975, Bull. Inst. Pub. Health, Tokyo, v. 24 (1), 7-17
economic importance and public health implications of parasitized food fish, epidemiologic survey

- Disease transmission, Food
Khalil, G. M., 1976, *J. Parasitol.*, v. 62 (1), 126
Linguatula serrata, prevalence in *Bos taurus* and *Camelus dromedarius* (visceral lymph nodes), potential health hazard to humans: Cairo abattoir
- Disease transmission, Food
Khamboonruang, C.; and Nateewatana, N., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 74-78
Trichinella spiralis, outbreak of trichinosis in 27 native villagers who had eaten raw pork as part of native dish, epidemiologic survey: Mae Sruay District, northern Thailand
- Disease transmission, Food
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- Disease transmission, Food
Kliks, M.; Tantachamrun, T.; and Chaiyaporn, V., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (2), 303-309
Macracanthorhynchus hirudinaceus, human, fertilized female worm removed from ulcerous area of intestinal wall, infection probably resulted from ingestion of intermediate host beetle as food, clinical case report, morphology of recovered worm: Thailand
- Disease transmission, Food
Ko, R. C., 1976, *Canad. J. Zool.*, v. 54 (4), 597-609
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- Disease transmission, Food
Kramer, M. D.; and Aita, J. F., 1972, *Neurology*, v. 22 (5), 485-491
Trichinella spiralis in human with central nervous system involvement and unilateral rectus paresis, case report, history of pork chop consumption, thiabendazole in conjunction with prednisone: Baltimore
- Disease transmission, Food
Lamy, C.; et al., 1976, *Mouv. Presse Med.*, v. 5 (15), 1005-1006 [Letter]
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- Disease transmission, Food
Lie Kian Joe; et al., 1962, *Med. J. Malaya*, v. 17 (1), 37-39
trematode ova, probably *Poikilorchis* sp., found in retro-auricular abscess excised from child, possible infection from eating fresh water crabs: Sarawak
- Disease transmission, Food
Lim, B. L., 1976, *Med. J. Malaysia*, v. 30 (3), 207-211
clinical aspects and presenting symptoms of human eosinophilic meningoencephalitis caused by rat lungworm *Angiostrongylus cantonensis* and speculation as to similar infection by *Angiostrongylus malaysiensis* indigenous to Malaysia, probable disease transmission through raw or inadequately cooked food
- Disease transmission, Food
Lim, B. L.; and Omar-Ahmad, U. D., 1969, *Med. J. Malaya*, v. 23 (3), 208-213
survey for *Angiostrongylus cantonensis* infected wild rodents and land molluscs and contaminated leaf lettuce, probable sources of human meningoencephalitis in Malaysia
- Disease transmission, Food
Loison, G.; Jardin, C.; and Crosnier, J., 1973, *Medecine Trop.*, v. 33 (2), 143-161
human eosinophilic meningitis caused by *Angiostrongylus cantonensis*, possible transmission through contaminated food, public health program, improved sanitation as control measures: South Pacific Islands
- Disease transmission, Food
Mantovani, A.; et al., 1976, *Bull. Acad. Vet. France*, v. 49 (2), 213-222
human trichinosis, source of infections appears to be contaminated horsemeat imported from Poland or Yugoslavia, case report: Bagnolo in Piano (Reggio Emilia), Italy
- Disease transmission, Food
Margolis, L., 1977, *J. Fish. Research Bd. Canada*, v. 34 (7), 887-898
Phocanema decipiens in humans that eat raw, lightly marinated, or undercooked marine fishes, diagnosis, treatment, public health implications, review
- Disease transmission, Food
Menard, E.; et al., 1973, *Bol. Chileno Parasitol.*, v. 28 (3-4), 73-77
Trichinella spiralis outbreak in 13 of 19 persons of a religious group, had eaten pork not raised and slaughtered under sanitary conditions: Chile
- Disease transmission, Food
Miyazaki, I.; and Habe, S., 1976, *J. Parasitol.*, v. 62 (4), 646-648
Paragonimus westermani, probability that various animals serve as paratenic hosts and man can acquire infection from eating them as well as by eating crabs or crayfish
- Disease transmission, Food
Moloo, S. K.; Losos, G. J.; and Kutuza, S. B., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 331-334
Trypanosoma brucei, successful transmission to cats and dogs by feeding on infected goats, results suggest that oral mode of transmission might be operative in areas where wild carnivores have high rate of trypanosome infection

Disease transmission, Food

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Trichinella spiralis, human outbreak probably caused by eating imported horse meat: region of Paris, France

Disease transmission, Food

Murray, H. M. L., 1971, Med. J. Australia, v. 2 (15), 779

control of sheep offal in spread of echinococcosis through dogs to man: Australia

Disease transmission, Food

Nelson, G. S., 1972, Zool. J. Linn. Soc., London, v. 51, Suppl. 1, 109-122

human behavior in the transmission of parasitic diseases, review

Disease transmission, Food

Niemi, D. R.; and Macy, R. W., 1974, Proc. Helminth. Soc. Washington, v. 41 (2), 223-229

Apophallus donicus, life cycle, morphology, potentially lethal to small salmon and infective to man through fish consumption

Disease transmission, Food

Nitidandhaprabhas, P.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 49-51

fourth reported case of human urinary tract gnathostomiasis, woman with history of eating raw fish passed adult male *Gnathostoma spinigerum* in urine, probable parasite migration through lung and spinal column to bladder: Thailand

Disease transmission, Food

Nitidandhaprabhas, P.; Hanchansin, S.; and Vongsloesvidhya, Y., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 547-548

living adult male *Gnathostoma spinigerum* coughed up by Thai woman, probably infected from eating pork, case report: Korat, Thailand

Disease transmission, Food

Obiamiwe, B. A., 1977, Ann. Trop. Med. and Parasitol., v. 71 (1), 35-43

survey, human intestinal parasites in relation to seasonal rainfall, dietary habits, and sanitation: Benin City, Nigeria

Disease transmission, Food

Ossola, A.; et al., 1969, Bol. Chileno Parasitol., v. 24 (3-4), 123-127

Trichinella spiralis outbreak in 31 persons, epidemiologic survey, meat from 3 pigs implicated as source: Mercedes, Chile

Disease transmission, Food

Otsuru, M., 1974, Internat. Med. Found. Japan. Reporting series (4), 49-64

human nematode infections, extensive review on epidemiology, treatment and control measures: Japan

Disease transmission, Food

Perkins, F. O.; Zwerner, D. E.; and Dias, R. K., 1975, J. Parasitol., v. 61 (5), 944-949

Urosporidium spisuli sp. n., hyperparasite of anisakids (pseudocoel) in surf clams, no potential health hazard from ingesting clams since they are temperature treated during commercial processing: vicinity Chesapeake Light, off Cape Henry, Virginia, N. Atlantic Ocean

Disease transmission, Food

Plant, J. W.; Richardson, N.; and Moyle, G. G., 1974, Austral. Vet. J., v. 50 (1), 19-21

Toxoplasma gondii, sheep, contamination of grain by cat feces containing oocysts, examination of cats inhabiting feed shed revealed oocysts

Disease transmission, Food

Potter, M. E.; et al., 1976, Am. J. Pub. Health, v. 66 (12), 1194-1196

Trichinella spiralis, outbreak of trichinosis in 23 of 50 persons who had eaten home-made summer sausage; economic importance of this avoidable infection and need for nationwide program of control of trichinosis in swine: Illinois

Disease transmission, Food

Prathap, K.; Ramachandran, C. P.; and Haug, N., 1968, Med. J. Malaya, v. 23 (2), 92-95

human hepatic and pulmonary porocephaliasis probably of *Porocephalus moniliformis* origin, lesions discovered accidentally at autopsy of Orang Asli Aborigine, probable infection from improperly cooked snake meat: Pahang State, Malaya

Disease transmission, Food

Pupkin, J.; Apt, W.; and Rivera, H., 1967, Bol. Chileno Parasitol., v. 22 (2), 66-68

Cysticercus cellulosae, localization on tongue of pregnant woman, history of eating undercooked pork, case report: Chile

Disease transmission, Food

Reyes, H.; Doren, G.; and Inzunza, E., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 23-29

survey of prevalence of human taeniasis, frequency of infection by different spp., increasing incidence of *T. solium* suggests consumption of unsanitary pork: Santiago, Chile

Disease transmission, Food

Reyes, H.; Olea, M.; and Hernandez, R., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 115-116

survey of food handlers for intestinal parasites shows 50.5% infection rate: Santiago, Chile

Disease transmission, Food

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fish tapeworm, decreasing incidence in Finnish population

- Disease transmission, Food
Sagua, H.; et al., 1976, Bol. Chileno Parasitol., v. 31 (1-2), 33
Diphyllobothrium pacificum, case report of infections in 2 persons with history of raw salt water fish consumption: Antofagasta and Mejillones, Chile
- Disease transmission, Food
Sapunar, J.; Doerr, E.; and Letonja, T., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 79-83
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- Disease transmission, Food
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filariasis, Angiostrongylus cantonensis, amoebiasis, human parasitic diseases of medical interest and their etiology: French Polynesia
- Disease transmission, Food
Schantz, P. M., 1977, Am. J. Epidemiol., v. 106 (5), 370-379
Echinococcus granulosus, extensive epidemiologic survey of increased incidence of echinococcosis among American Indians, source thought to be sheep-dog cycle with infections acquired by dogs eating home-butchered sheep offal: Arizona and New Mexico
- Disease transmission, Food
Schantz, P. M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 121-126
Echinococcus granulosus, extensive epidemiologic survey of American Indians living in recent high echinococcosis endemic area, indications that infection is enzootic with sheep-dog cycle and with transmission furthered by local practice of home butchering and feeding of infected meat to pet dogs: Arizona; New Mexico
- Disease transmission, Food
Schantz, P. M.; Juranek, D. D.; and Schultz, M. G., 1977, J. Infect. Dis., v. 136 (5), 712-716
Trichinella spiralis, humans, increased incidence of infections reported in 1975, statistics of epidemiologic study: United States
- Disease transmission, Food
Schenone, H.; et al., 1967, Bol. Chileno Parasitol., v. 22 (1), 2-10
Trichinella spiralis, mild outbreak affecting 36 persons, exact etiology unknown but hogs feeding on garbage dump which also had abundant T. spiralis-infected rat population believed to be source: Antofagasta, Chile
- Disease transmission, Food
Schenone, H.; et al., 1967, Bol. Chileno Parasitol., v. 22 (1), 32-37
heavy concurrent fatal infection of Trichinella spiralis and Taenia solium in 17-year-old boy with history of eating raw pork, others in family less heavily infected, clinical case report: Santiago, Chile
- Disease transmission, Food
Schenone, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 33-36
trichinosis reported in 49 persons who had eaten insufficiently cooked pork, clinical findings, serologic diagnosis: Temuco, Chile
- Disease transmission, Food
Schenone, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 103-107
Trichinella spiralis, humans, prevalence survey, evidence of increasing infection: Chile
- Disease transmission, Food
Schmitt, N.; et al., 1976, Canad. J. Pub. Health, v. 67 (1), 21-24
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- Disease transmission, Food
Scholten, T. ; Pang, D. ; and Lau, T. S., 1976, Canad. Med. Ass. J., v. 115 (7), 612-613
[Letter]
Taenia solium, 2 case reports of human cysticercosis (one with severe involvement of central nervous system and one with muscle cyst of right forearm), clinical aspects with emphasis on diagnostic awareness and possible control measures: Canada
- Disease transmission, Food
Shih, W.-J., 1976, J. Am. Med. Ass., v. 236 (10), 1116
diagnosis of Clonorchis sinensis in man by hepatic scan, history of raw and undercooked fish consumption, resolution of lesions after treatment with gentian violet and chloroquine: Taiwan
- Disease transmission, Food
Singal, M.; Schantz, P. M.; and Werner, S. B., 1976, Am. J. Trop. Med. and Hyg., v. 25 (5), 675-681
Trichinella spiralis, report of outbreak in passengers of pleasure cruise, ground beef contaminated by pork implicated as transmission vehicle: luxury liner en route to Alaska
- Disease transmission, Food
Slonka, G. F.; et al., 1976, J. Parasitol., v. 62 (2), 221
Trichinella spiralis, survey of mongoose, human, and swine populations, no evidence of infection, human population not at substantial risk of infection due to ingestion of infected pork or mongoose meat: U. S. Virgin Islands

- Disease transmission, Food
Stoll, L., 1975, Oeffentl. Gsndhtsw., v. 37 (2), 99-107
human toxoplasmosis, epidemiologic survey of foreign immigrants from Mediterranean areas and comparison with German natives as to occupational exposure, dietary habits and association with cats: West Germany
- Disease transmission, Food
Straka, S.; et al., 1977, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 26 (1), 52-60
tapeworms, human, epidemiological analysis, geographical distribution, sex, age, social structure, occupation and clinical symptoms; transmission by raw meat, efficacy of anthelmintics: Slovak Socialist Republic
- Disease transmission, Food
Supperer, R.; and Leibetseder, J., 1977, Wien. Tierarztl. Monatsschr., v. 64 (6-7), 188-189
Sarcocystis, Toxoplasma, raw meat and slaughtering offals should be cooked to prevent transmission of parasites to dog and cat
- Disease transmission, Food
Takahashi, T.; et al., 1975, Nippon Kyobu Shikkan Gakkai Zasshi (Japan. J. Thorac. Diseases), v. 13 (3), 169-173
Paragonimus miyazakii, man with history of having eaten raw fresh water crabs (Potamon dehaani), clinical signs of bilateral pleural effusion and solitary nodular lesion on X-ray, case report: Japan
- Disease transmission, Food
Teesdale, C. H., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 165
Schistosoma bovis, spurious infection in humans probably resulting from ingesting infected meat, routine survey shows less than 1% infection rate (eggs in feces): Sudan
- Disease transmission, Food
van Thiel, P. H., 1976, Trop. and Geogr. Med., v. 28 (2), 75-85
human anisakiasis, current status, review (diagnosis, treatment, epidemiology, distribution, definitive and intermediate hosts)
- Disease transmission, Food
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epidemic proportions of equine hydatidosis, evidence indicates that hunting dogs are major definitive host for equine "strain" of Echinococcus granulosus and that they acquire infection by being fed raw uninspected horse flesh and offal, potential public health implications: Great Britain
- Disease transmission, Food
Thornton, H., 1972, Vet. Rec., v. 91 (18), 430-431, 432 [Letter]
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- Disease transmission, Food
Thuraisingam, V.; Tan Ewe Aik, P.; and Sandosham, A. A., 1969, Med. J. Malaya, v. 24 (2), 107-112
presumptive case of gnathostomiasis in Chinese woman probably caused by Gnathostoma spinigerum, history of consumption of raw fish: Malaysia
- Disease transmission, Food
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- Disease transmission, Food
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Dicrocoelium dendriticum eggs discovered in human feces, infection probably transmitted through contaminated liver of infected animal consumed as food by human: Madrid
- Disease transmission, Food
Velasquez, C. C., 1975, J. Parasitol., v. 61 (5), 910-914
Carneophallus brevicaca comb. n., life cycle, role of Macrobrachium sp. as vector for human infection in areas where raw shrimp are consumed: Philippines
- Disease transmission, Food
Verster, A.; Du Plessis, T. A.; and van den Heever, L. W., 1976, Onderstepoort J. Vet. Research, v. 43 (1), 23-26
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- Disease transmission, Food
Warren, K. S.; and Mahmoud, A. A. F., 1976, J. Infect. Dis., v. 133 (5), 596-601
prevention of malaria, schistosomiasis and other tropical and exotic diseases, advice to travellers
- Disease transmission, Food
Widagdo; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 72-74
Angiostrongylus cantonensis male worm removed from eye of woman, some residual visual impairment, history of eating raw vegetables possibly contaminated by snails and of residence in rat-infested area: Semarang, Central Java
- Disease transmission, Food
Wiesenhuetter, E., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 445 [Demonstration]
Trypanosoma evansi infection in domestic dogs possibly resulting from consumption of raw meat of infected bovines or wild pigs: Malaysia

- Disease transmission, Food
Williams, L. P., jr.; Nelson, C. B.; and Zymet, C. L., 1969, *Minnesota Med.*, v. 52 (7), 1153-1158
Trichinella spiralis outbreak involving 37 persons, infection apparently from consumption of summer sausage all had obtained from local meatpacking source: Minnesota; Iowa
- Disease transmission, Food
Willie, S. M.; and Snyder, R. N., 1977, *Acta Cytol.*, v. 21 (1), 101-102
Paragonimus westermanii in man presenting as ulcerated granular mucosa in bronchus, diagnosis using Papanicolaou staining of bronchial washings, probable transmission from eating raw and pickled crayfish when on visit to Korea: California (Korean born)
- Disease transmission, Food
Wood, I. J.; Porter, D. D.; and Stephens, W. B., 1975, *Med. J. Australia*, v. 1 (26), 841
Fasciola hepatica infection in 2 persons who had harvested and eaten wild watercress: Victoria, Australia
- Disease transmission, Food
Wood, I. J.; Stephens, W. B.; and Porter, D. D., 1975, *Med. J. Australia*, v. 2 (22), 829-831
Fasciola hepatica liver infections in husband and wife who had eaten watercress contaminated by cattle, problems in diagnosis solved only by pathology discovered in diagnostic surgery, good responses to emetine and chloroquine therapy: Victoria, Australia
- Disease transmission, Food
Yii, C. Y.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 447-454
epidemiologic characteristics of human eosinophilic meningitis and meningoencephalitis probably caused by Angiostrongylus cantonensis being inadvertently ingested during preparation of snails for consumption: Taiwan
- Disease transmission, Food
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Paragonimus spp. infective to man, epidemiology, geographic distribution, current control measures, mass therapy with bithionol, extensive review
- Disease transmission, Food
Zigas, V., 1976, *Papua N. Guinea Med. J.*, v. 19 (4), 225-230
Toxoplasma gondii in humans, epidemiologic survey for prevalence of antibodies, possible correlation with ingestion of raw meat rather than presence of cats: New Britain, Papua New Guinea
- Disease transmission, Garbage
Schenone, H.; et al., 1967, *Bol. Chileno Parasitol.*, v. 22 (1), 2-10
Trichinella spiralis, mild outbreak affecting 36 persons, exact etiology unknown but hogs feeding on garbage dump which also had abundant T. spiralis-infected rat population believed to be source: Antofagasta, Chile
- Disease transmission, Helminths. See Vectors, Helminths.
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- Disease transmission, Imported and exported hosts
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- Disease transmission, Venereal
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Disease transmission, Water

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- Disease transmission, Water
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- Disease transmission, Water
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- Disease transmission, Water
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- Disease transmission, Water
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- Disease transmission, Water
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- Disease transmission, Water
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- Distribution in host. See Localization.
- Diurnal rhythms. See Periodicity.
- Drug resistance. See Resistance, Drug.
- Drugs, Mode of action
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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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Taenia taeniaeformis, mice, parenteral treatment with mebendazole, progressive micro-morphological changes in cysticerci confined to absorptive compartment of larvae (tegument and tegumental cells), primary interference with microtubular system

Drugs, Mode of action

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Drugs, Mode of action

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Drugs, Mode of action

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- Drugs, Mode of action
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- Drugs, Mode of action
Chapman, H. D., 1976, *Vet. Parasitol.*, v. 1 (4), 299-308
Eimeria tenella, delayed treatment used to study mode of action of 7 anticoccidial drugs in the chicken and chicken embryo
- Drugs, Mode of action
Chatfield, D. H., 1976, *Xenobiotica*, v. 6 (8), 509-520
nitrofurylthiazoles, absorption, tissue distribution, metabolism, and excretion in rats and mice
- Drugs, Mode of action
Cheng, T. C., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (1), 2-17
uptake mechanisms and metabolic interference in parasites in relation to chemotherapy, review
- Drugs, Mode of action
Chiodini, P. L., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 27-28 [Demonstration]
Babesia canis, in vitro culture; *B. rodhaini* and *B. divergens* in leucocyte-free dilution cultures, effect of imidocarb on leucine and adenosine incorporation, possible use of system for in vitro screening of potential haesicides and also for mode of action studies
- Drugs, Mode of action
Clarkson, A. B., Jr.; and Brohn, F. H., 1976, *Science* (4261), v. 194, 204-206
Trypanosoma brucei brucei, *T. brucei rhodesiense*, mice, salicyl hydroxamic acid + glycerol block glucose catabolism of the parasite and it is rapidly destroyed but parasitemia recurs after treatment, with modification may be new approach to trypanosome chemotherapy
- Drugs, Mode of action
Cockrell, B. V.; Hall, B. V.; and Simon, J., 1972, *Am. J. Vet. Research*, v. 33 (4), 687-698
dichlorvos and toluene-dichlorophen, induce changes in ultrastructure of beagle liver parenchymal cells, may reduce efficacy of drugs administered later
- Drugs, Mode of action
Coles, G. C.; East, J. M.; and Jenkins, S. N., 1975, *Gen. Pharmacol.*, v. 6 (4), 309-313
Nippostrongylus brasiliensis, *Ascaris lumbricoides* var. suum, levamisole, mechanism of action, paralysis and recovery of motility, resistance of recovered worms to paralysis by methyridine, pyrantel, or bethenium, results suggest levamisole acts as ganglion stimulant and that inhibition of fumarate reductase is not relevant to in vivo mode of action
- Drugs, Mode of action
Conklin, K. A.; and Chou, S. C., 1970, *Science* (3965), v. 170, 1213-1214
4 antimalarials, effects on in vitro and in vivo protein synthesis, results indicate primary effect is inhibition of amino acid uptake rather than direct inhibition of protein synthesis
- Drugs, Mode of action
Constanti, A.; and Nistri, A., 1976, *Brit. J. Pharmacol.*, v. 57 (3), 347-358
quantitative comparative study of the effects of piperazine and γ -aminobutyric acid on lobster muscle fibers and frog spinal cord to determine whether piperazine has central neuronal depressant actions on parasites
- Drugs, Mode of action
Coombs, G. H., 1973, *J. Protozool.*, v. 20 (4), 524
Flagyl, biochemical mode of action, explanation of selective toxicity for anaerobic organisms
- Drugs, Mode of action
Cornish, R. A.; et al., 1977, *Internat. J. Parasitol.*, v. 7 (3), 217-220
Fasciola hepatica, in vivo effects of rafoxanide on energy metabolism

Drugs, Mode of action

Damper, D.; and Patton, C. L., 1976, *Biochem. Pharmacol.*, v. 25 (3), 271-276

Trypanosoma brucei, pentamidine transport, kinetics, specificity (competitive inhibition by other trypanocidal aromatic diamidines), structural specificity in relationship to varying drug affinities for transport site and possible role in drug cross-resistance

Drugs, Mode of action

Dave, D.; Gutteridge, W. E.; and Richards, W. H. G., 1976, *Parasitology*, v. 73 (2), xvii [Abstract]

Plasmodium spp., conversion of dihydroorotate to orotate, activities were irreversible, required O₂, and were inhibited by CN and Antimycin A, no involvement of reduced pteridines or pyridine nucleotides detected, this area of metabolism may be important site for selective drug action

Drugs, Mode of action

Davidson, M. W.; et al., 1977, *J. Med. Chem.*, v. 20 (9), 1117-1122

antimalarial action of quinolinemethanolamines as mefloquine, quinacrine, chloroquine and quinine does not involve interaction with DNA, reported results from laboratory study

Drugs, Mode of action

Davies, E. E.; Howells, R. E.; and Peters, W., 1971, *Ann. Trop. Med. and Parasitol.*, v. 65 (4), 461-464

Plasmodium berghei oocysts after exposure to primaquine, no changes in morphology of mitochondria (as opposed to erythrocytic stages), possible reasons for insensitivity of oocyst to primaquine

Drugs, Mode of action

Davies, E. E.; Warhurst, D. C.; and Peters, W., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 4-5 [Demonstration]

Plasmodium berghei, ultrastructural changes after treatment with quinine or WR 122,455

Drugs, Mode of action

Davies, E. E.; Warhurst, D. C.; and Peters, W., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (2), 147-153

Plasmodium berghei berghei in mice, fine structural changes following treatment with quinine or WR 122,455, relationship of changes to drug mode of action

Drugs, Mode of action

Denham, D. A.; and Holdsworth, R. J., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 696

action of metrifonate on *Schistosoma mansoni* and *S. haematobium* in vitro, powerful but reversible paralyzing effect on adult schistosomes apparently affected by anatomical sites in which parasites live

Drugs, Mode of action

Desowitz, R. S., 1965, *Med. J. Malaya*, v. 20 (1), 52-53

oxygen consumption of *Plasmodium berghei* in presence of normal or immune rat serum and chloroquine, possible usefulness in drug screening and determination of drug-serum clearance rates

Drugs, Mode of action

Dewey, V. C.; and Kidder, G. W., 1973, *J. Protozool.*, v. 20 (5), 678-682

Trypanosoma cruzi, growth inhibition by allopurinol, both purines and pyrimidines required for reversal, actual inhibitor is allopurinol ribotide (not free base) acting on orotidine 5'-phosphate decarboxylase

Drugs, Mode of action

Docampo, R.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 142-149

Trypanosoma cruzi epimastigotes, ultrastructural and metabolic alterations caused by β -lapachone

Drugs, Mode of action

Docampo, R.; de Boiso, J. F.; and Stoppani, A. O. M., 1974, *Medicina*, Buenos Aires, v. 34 (5), 525-531

action of ethidium bromide on *Trypanosoma cruzi* metabolism (damage to kinetoplast DNA; reduced respiration; changes in glycolysis)

Drugs, Mode of action

Douch, P. G. C., 1976, *Xenobiotica*, v. 6 (9), 531-536

Ascaris lumbricoides var *suum*, *Moniezia expansa*, azo- and nitro-reductase activities, absence of cytochromes P-450 and b₅, possible new approach for development of anthelmintic drugs

Drugs, Mode of action

Douch, P. G. C.; and Gahagan, H. M., 1977, *Xenobiotica*, v. 7 (5), 301-307

Moniezia expansa, *Ascaris lumbricoides* var *suum*, reduction and/or hydrolysis of niclosamide and related compounds by intact helminths and by enzyme preparations from the helminths and from mouse and sheep liver homogenates, reduction of niclosamide inhibited by allopurinol, indicates that co-administration of niclosamide and allopurinol might improve efficacy of anthelmintic, hydrolysis of benzanilide and related compounds inhibited by anthelmintic organophosphates

Drugs, Mode of action

Douch, P. G. C.; and Gahagan, H. M., 1977, *Xenobiotica*, v. 7 (5), 309-314

Ascaris lumbricoides var *suum*, N-deacetylase, localization and some properties, inhibition by anthelmintic organophosphates indicates they have potential use as adjuvants for anthelmintics of other chemical classes

- Drugs, Mode of action
 Duiwel, D., 1977, Cahiers Bleus Vet. (26), 201-215
 fenbendazole, efficacy against nematodes in various animals, useful as broad spectrum anthelmintic, mechanism of action, pharmacokinetics, metabolism, toxicology
- Drugs, Mode of action
 Duiwel, D.; Hajdu, P.; and Damm, D., 1975, Berl. u. Munchen. Tierarztl. Wchnschr., v. 88 (21), 418-419
 Metastrongylus apri, pigs, fenbendazol, therapeutic dosage, serum levels, fast elimination and low levels required for effectiveness
- Drugs, Mode of action
 Dvorak, J. A.; and Howe, C. L., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 58-63
 Trypanosoma cruzi, effects of lampit on parasite penetration of vertebrate cells and intracellular parasite reproduction time, lampit resistant T. cruzi strain easily produced in vitro
- Drugs, Mode of action
 Dykstra, W. G.; and Meszoely, C. A., 1975, J. Protozool., v. 22 (3), 17A [Abstract]
 Plasmodium lophurae intraerythrocytic stages, quinine-induced morphological changes apparently specific for feeding stages
- Drugs, Mode of action
 Eberhardt, U.; and Oettel, M., 1975, Pharmazie, v. 30 (4), 241-243
 coccidiosis, structure-activity relationships of di-thiocarbamoyl hydrazine metal chelating agents, possible use as coccidiostats
- Drugs, Mode of action
 Eckert, J.; and Pohlenz, J., 1976, Tropenmed. u. Parasitol., v. 27 (3), 247-262
 Echinococcus multilocularis metacestode tissue transplanted into mice or Meriones unguiculatus, Mesocestoides corti in mice, effects of mebendazole on metacestodes, oral therapy well tolerated
- Drugs, Mode of action
 Einheber, A.; Palmer, D. M.; and Aikawa, M., 1976, Exper. Parasitol., v. 40 (1), 52-61
 Plasmodium berghei, chloroquine-induced pigment clumping, inhibition and reversal by quinine, WR 33,063, WR 171,669, WR 30,090, and WR 142,490, possible application in assay for oral bioavailability of such candidate antimalarials
- Drugs, Mode of action
 El-Hawey, A. M.; Lan, S. J.; and Schreiber, E. C., 1976, Egypt. J. Bilharz., v. 3 (1), 73-78
 S[chistosoma] mansoni, tissue distribution and autoradiographic localization of SQ 18506 studied in infected mice (exper.); uptake by schistosomes cultured in vitro
- Drugs, Mode of action
 Elslager, E. F., 1974, Progr. Drug Research, v. 18, 99-172
 human malaria and filariasis, new perspectives on chemotherapy, extensive review
- Drugs, Mode of action
 Entner, N.; and Grollman, A. P., 1973, J. Protozool., v. 20 (1), 160-163
 Entamoeba histolytica, effect of amebicidal agents on protein synthesis, correlation of drug structural characteristics with biologic activity, implications for designing drugs with increased margin of selective toxicity for parasite vs. host
- Drugs, Mode of action
 Evans, D. A.; and Brown, R. C., 1973, J. Protozool., v. 20 (1), 157-160
 Trypanosoma brucei bloodstream and culture forms, inhibition of cyanide-insensitive respiration by m-chlorobenzhydroxamic acid, cyanide-sensitive respiration of culture forms not affected, possible importance as trypanocidal drug, implications for mechanism of terminal respiration
- Drugs, Mode of action
 Evans, D. A.; and Brown, R. C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 258 [Abstract]
 Trypanosoma brucei, inhibition of cyanide-insensitive respiration of both bloodstream and culture forms by m-chlorobenzhydroxamic acid
- Drugs, Mode of action
 Ewert, A.; and Emerson, G. A., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 71-73
 effect of diethylcarbamazine on third stage Brugia malayi larvae in cats
- Drugs, Mode of action
 Fairlamb, A. H.; and Bowman, I. B. R., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 268 [Abstract]
 Trypanosoma brucei, studies on glycerophosphate oxidase, mechanism of action, suramin a potential inhibitor
- Drugs, Mode of action
 Fairlamb, A. H.; and Bowman, I. B. R., 1977, Exper. Parasitol., v. 43 (2), 353-361
 Trypanosoma brucei, effect of suramin and other trypanocidal compounds on sn-glycerol-3-phosphate oxidase, results suggest this enzyme is one of principal sites of action of suramin in vivo
- Drugs, Mode of action
 Fairlamb, A. H.; Opperdoes, F. R.; and Borst, P., 1977, Nature, London (5591), v. 265, 270-271
 Trypanosoma brucei, effect of salicylhydroxamic acid + glycerol on motility and pyruvate production, shows how knowledge of trypanosome metabolism has led to new methods for screening drugs

- Drugs, Mode of action
 Farag, H. H.; Youssef, A. F.; and Omran, L. A., 1977, *J. Pharm. Sc.*, v. 66 (3), 423-425
Hymenolepis diminuta, rats, 2-imino-3-[(N-arylcarbonyl)methyl]-2,3,4,5-tetrahydrothiazoles, activity of some compounds, no clinical toxicity; role of nitro group in anthelmintic activity, possible in vivo drug bioactivation
- Drugs, Mode of action
 Farah, A.; et al., 1974, *Egypt. J. Bilharz.*, v. 1 (2), 181-195
 hycanthon used to treat human schistosomiasis, study of pharmacodynamics of drug using experimental animals, few toxic effects except in cats
- Drugs, Mode of action
 Fauran, F., 1973, *Medecine Afrique Noire*, v. 20 (10), 729-741
 pharmacological aspects of antimalarial drugs in current use
- Drugs, Mode of action
 Fernando, S. S. E.; and Denham, D. A., 1976, *J. Parasitol.*, v. 62 (6), 874-876
Trichinella spiralis, effect of mebendazole and fenbendazole on different life cycle stages, mice
- Drugs, Mode of action
 Ferone, R., 1973, *J. Protozool.*, v. 20 (3), 459-464
Plasmodium berghei, synthesis of dihydropterolate and dihydrofolate, some properties of enzymes involved, enzymic synthesis of dihydropterolate inhibited by several sulfonamides and diaminodiphenylsulfone
- Drugs, Mode of action
 Fink, E., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 183-184
P[lasmodium] berghei yoelii, P. cathemerium, schizogony and sporogony stages, metabolites and antimetabolites
- Drugs, Mode of action
 Gear, N. R., 1976, *Comp. Biochem. and Physiol.*, v. 55 (1C), 5-10
 4 *Schistosoma* spp., response to various acetylcholinesterase and cholinesterase inhibitors on hydrolysis of acetylcholine by parasite extracts
- Drugs, Mode of action
 Gibson, D. W.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 74-87
Onchocerca volvulus, humans with severe onchocercal dermatitis, ultrastructure of microfilariae and host skin tissues before and after diethylcarbazine treatment: Cameroon
- Drugs, Mode of action
 Giono-Barber, H.; and Sylla, O., 1973, *Medecine Afrique Noire*, v. 20 (12), 945-957
Entamoeba histolytica, pharmacological aspects and clinical indications for treatment, drugs in current use, humans
- Drugs, Mode of action
 Goebel, E.; and Dennig, H. K., 1976, *Ztschr. Parasitenk.*, v. 49 (2), 97-112
Babesia herpailuri from cats before and after treatment with Imidocarb, ultrastructure of intraerythrocytic trophozoites and merozoites; prophylactic effect of drug may be due to low feeding on hemoglobin
- Drugs, Mode of action
 Goodwin, L. G.; and Tierney, E. D., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 21 [Demonstration]
 trypanosome suspension (*Trypanosoma brucei*), titration technique on plastic microtest plates (Nunclon) to determine trypanocidal drug activity in body fluids and to detect contribution of humoral immunity to chemotherapeutic activity
- Drugs, Mode of action
 Gras, G., 1974, *Medecine Afrique Noire*, v. 21 (1), 11-28
 human intestinal anthelmintics; pharmacological properties, chemical structures, screening methods, extensive review
- Drugs, Mode of action
 Grewal, A. S.; and Gill, B. S., 1976, *Indian J. Animal Sc.*, v. 45 (1), 1975, 36-39
Trypanosoma evansi, rats (exper.), 4 arsenicals, effect on trypanosome morphology and infectivity in vivo (mice)
- Drugs, Mode of action
 Grzywacz, M., 1975, *Mater. Med. Pol.* (25), v. 7 (4), 311-313
Ascaris lumbricoides var. suum, pharmacodynamic analysis of piperazine adipate penetration into parasite using scintigraphy and autoradiography
- Drugs, Mode of action
 Hanna, R. E. B.; and Threadgold, L. T., 1976, *Exper. Parasitol.*, v. 39 (1), 106-114
Fasciola hepatica tissue slices, stereological analysis of effects of metabolic inhibitors on production and distribution of Type 1 secretory bodies in tegument
- Drugs, Mode of action
 Hart, L. T.; Dimopoulos, G. T.; and Mandhare, K. S., 1973, *Avian Dis.*, v. 17 (4), 752-757
Plasmodium lophurae, pyrimethamine, effect on in vitro incorporation of sodium acetate by lipids of blood from normal and infected ducks, inhibition of lipolysis in both normal and infected blood
- Drugs, Mode of action
 Hart, R. J.; Turner, R.; and Wilson, R. G., 1977, *Internat. J. Parasitol.*, v. 7 (2), 129-134
Hymenolepis nana, bunamidine causes decrease in glucose uptake and increase in glucose efflux and stimulation of surface phosphatase activity, suggests that disruption of integument is mode of action by which worm death is caused, ultrastructural studies confirm these biochemical indications of integumental damage

Drugs, Mode of action

- Heischkeil, R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 505-516
Plasmodium vinckei, chemotherapeutic activity of selected antagonists of folic acid metabolism with special reference to structure-activity relationships, comparison with some standard antimalarials; some compounds also exert noxious effect on host

Drugs, Mode of action

- Heischkeil, R., 1974, Tropenmed. u. Parasitol., v. 25 (1), 105-115
Plasmodium vinckei, mice, purine and pyrimidine derivatives, antimetabolic activity against structurally analogous vitamins of the B complex and precursors of nucleic acids, plasmodiostatic activity compared to some standard antimalarials

Drugs, Mode of action

- Hentzer, B.; and Kobayasi, T., 1977, Ann. Trop. Med. and Parasitol., v. 71 (2), 157-166
Leishmania tropica, effects of pentamidine therapy on fine structure of amastigote stage

Drugs, Mode of action

- Hillman, G. R.; Gibler, W. B.; and Anderson, J. B., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 238-242
Schistosoma mansoni and *S. japonicum* in culture, comparative drug effects of hycanthon, scanning electron microscopy demonstrated degeneration of tegument of *S. mansoni* but not *S. japonicum*

Drugs, Mode of action

- Homewood, C. A.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 114 [Demonstration]
Schistosoma mansoni, hycanthon reduction of adenosine incorporation and activity of parasite

Drugs, Mode of action

- Ilan, J.; Pierce, D. R.; and Miller, F. W., 1977, Proc. Nat. Acad. Sc., v. 74 (8), 3386-3390
Plasmodium berghei, 9- β -D-arabinofuranosyladenine markedly depresses total protein synthesis and induces pronounced changes in spectrum of proteins synthesized (indicating changes in commitment for gene expression)

Drugs, Mode of action

- Injeyan, H. S.; and Meerovitch, E., 1974, J. Protozool., v. 21 (5), 738-742
Crithidia sp., inhibition of overall growth and macromolecular synthesis by juvenile hormone, inhibition of RNA synthesis of particular interest, implications for mode of action in insect systems

Drugs, Mode of action

- Irvin, A. D.; and Stagg, D. A., 1976, Parasitology, v. 73 (2), xix [Abstract]
Theileria parva in bovine lymphoid cells, purine and pyrimidine metabolism, possibility of exploiting defect in purine metabolism in therapy with folate antagonists

Drugs, Mode of action

- Irvin, A. D.; and Stagg, D. A., 1977, Exper. Parasitol., v. 41 (1), 172-185
Theileria parva-infected bovine lymphoid cells, apparent defect in purine metabolism suggests that folate antagonists such as aminopterin and methotrexate may have application in therapy of East Coast fever

Drugs, Mode of action

- Iwamoto, I., 1971, Nettai Igaku (Trop. Med.), v. 13 (1), 1-6
Wuchereria bancrofti microfilariae in carrier dogs, small amounts of diethylcarbamazine in blood cause temporary appearance of larvae and disturbance of 24-hour microfilarial rhythm

Drugs, Mode of action

- Iyngkaran, N.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 568-572
 clinical trials using mebendazole to treat severe *Trichuris trichiura* infections in children; proctoscopy established as best method to assess worm burden and severity of involvement; mebendazole safe and effective if given over longer than currently recommended period, eggs post-treatment morphologically altered and no longer viable: Malaysia

Drugs, Mode of action

- Jaffe, J. J.; Doremus, H. M.; and Meymarian, E., 1976, J. Parasitol., v. 62 (6), 910-913
Fasciola hepatica, mice, tubercidin administered either intraerythrocytically or by direct intravenous injection, reduced number with active infections, increased host survival, mechanism presumed to involve purine metabolism, mode of entry into flukes unknown

Drugs, Mode of action

- James, C.; and Webbe, G., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (5), 413 [Letter]
Schistosoma haematobium in baboon (exper.), pronounced irreversible lung shift of worms after metrifonate therapy with resulting death of majority of trapped worms

Drugs, Mode of action

- Janovy, J., jr.; Greiner, E. C.; and Decker, J. E., 1974, J. Protozool., v. 21 (3), 430 [Abstract]
Leishmania donovani vs. *L. mexicana*, anaerobic glycolysis and CO₂ fixation over the range 25-37 C, effect of pentostam vs. stibophen

Drugs, Mode of action

- Josselin, J.; and Courtial, P., 1973, Medecine Afrique Noire, v. 20 (10), 781-787
 pharmacological and biochemical aspects of human schistosomicides in current use

Drugs, Mode of action

- Joyner, L. P.; and Norton, C. C., 1977, Parasitology, v. 75 (2), 155-164
Eimeria spp., anticoccidial effects of amprolium alone or with ethopabate, dinitolmide, and monensin with particular reference to oocyst sporulation, significance of effects on gametogony and sporogony

- Drugs, Mode of action
Kessler, H. J.; Schulz, V.; and Wagener, B., 1976, *Arzneimittel-Forsch.*, v. 26 (7), 1371-1375
distribution, absorption and elimination of trichomonocidal drug ZK 25 095 tested in normal subjects
- Drugs, Mode of action
Kinnamon, K. E.; Ager, A. L.; and Orchard, R. W., 1976, *Exper. Parasitol.*, v. 40 (1), 95-102
Plasmodium berghei, mice, sulfadiazine, WR 158,122, and WR 180,872 alone and in various combinations, synergistic effects, action at different sites in folic acid metabolic pathway, advantage of drug combinations in malaria chemotherapy
- Drugs, Mode of action
Kirsch, R., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 223
trichostrongylid eggs, morphological changes after fenbendazole treatment of infected lambs
- Drugs, Mode of action
Koehler, P., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 187
Ascaris suum, chemotherapy, effect on mitochondrial hydrogen transport
- Drugs, Mode of action
Kohlmann, F. W.; and Sous, H., 1976, *Arzneimittel-Forsch.*, v. 26 (4a), 618-620
pharmacological action and efficacy of combination sulfamoxole and trimethoprim against Plasmodium gallinaceum in chickens and Plasmodium berghei in mice, laboratory trials
- Drugs, Mode of action
Krvavica, S.; et al., 1976, *Vet. Arhiv, Zagreb*, v. 46 (9-10), 241-244
Dicrocoelium dendriticum, sheep, mechanism of hetolin activity, inhibition of enzymes
- Drugs, Mode of action
Kunz, S. E.; and Bay, D. E., 1977, *Southwest Entom.*, v. 2 (1), 27-31
Haematobia irritans, effects of diflubenzuron on mortality, fecundity, and reproduction, results show that fecundity and longevity were unaffected while egg hatch and larval development were reduced
- Drugs, Mode of action
Laemmler, G.; and Wolf, E., 1977, *Tropenmed. u. Parasitol.*, v. 28 (2), 205-225
Litomosoides carinii in Mastomys natalensis (exper.), 17 anthelmintics and chemotherapeutics comparatively tested for their chemoprophylactic activity against various larval stages of the parasites
- Drugs, Mode of action
Laing, A. B. G., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 133-138
Plasmodium falciparum, hospital trials with Gambian children testing BRL 50216 alone or in combinations with sulphadimethoxine or sulphafurazole (acting as potentiators); some response also with P. malariae; sporontocidal effect only when BRL 50216 given in presence of potentiators
- Drugs, Mode of action
Lee, J. C., 1972, *Nettai Igaku (Trop. Med.)*, v. 14 (2), 97-110
Trichomonas vaginalis, in vitro growth inhibiting effects of 8 antitrichomonal drugs; therapeutic effects of trichomycin, piperanitroazole, metronidazole and nimorazole against abscess formation in mice (exper.)
- Drugs, Mode of action
Lengyel, A.; and Janko, M., 1971, *Parasitol. Hungar.*, v. 4, 73-86
mode of action of antiparasitic agents on human parasites and use of radioisotopes in drug investigations, review
- Drugs, Mode of action
Leon, W.; Brun, R.; and Krassner, S. M., 1977, *J. Protozool.*, v. 24 (3), 444-448
Leishmania tarentolae, effect of Berenil on growth, on buoyant density of kinetoplast DNA, on dyskinetoplasty at ultrastructural level, and on cell respiration, results suggest that Berenil adversely affects mitochondrial respiratory activity
- Drugs, Mode of action
Levy, M. R.; Siddiqui, W. A.; and Chou, S. C., 1974, *Nature* (5442), v. 247, 546-549
Plasmodium falciparum, P. knowlesi, acid protease activity in parasites and in ghosts of their respective host red cells, possible value of protease inhibitors in inhibiting growth of malarial parasites
- Drugs, Mode of action
Lindmark, D. G.; and Mueller, M., 1974, *J. Protozool.*, v. 21 (3), 436 [Abstract]
affinity of metronidazole to reducing enzyme system(s) in Trichomonas vaginalis and Trichomonas foetus homogenates, inhibitory action of metronidazole on these enzymes due to competition for low redox potential electrons
- Drugs, Mode of action
Linstead, D. J.; Klein, R. A.; and Cross, G. A. M., 1977, *J. Gen. Microbiol.*, v. 101 (2), 243-251
Trypanosoma brucei, T. brucei brucei, threonine catabolism, inhibition of threonine dehydrogenase by wide range of agents
- Drugs, Mode of action
Liu, T. P., 1976, *Apiacta*, v. 11 (1), 10-13
Nosema apis, Fumidil B, ultrastructural alteration in spore membrane; effect on lipids of infected midgut epithelial cells of honey bees
- Drugs, Mode of action
Loppinet, V.; and Legait, J. P., 1974, *Medecine Afrique Noire*, v. 21 (4), 269-274
chemotherapy of human trypanosomiasis, drugs in current use, chemical structure and pharmacologic properties
- Drugs, Mode of action
Macadam, R. F.; and Williamson, J., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (3), 291-299
Trypanosoma rhodesiense, acriflavine, ethidium, antrycide, drug effects on fine structure

- Drugs, Mode of action
Macadam, R. F.; and Williamson, J., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (3), 301-306
Trypanosoma rhodesiense, suramin, tryparsamide, mapharside, drug effects on fine structure
- Drugs, Mode of action
McDougald, L. R.; and Galloway, R. B., 1976, *Exper. Parasitol.*, v. 40 (3), 314-319
Eimeria tenella, various anticoccidial drugs, in vitro and in vivo techniques used to observe effects on (1) viability of extracellular sporozoites, (2) penetration of sporozoites into host cells, (3) survival of intracellular sporozoites for 24 hr postinoculation
- Drugs, Mode of action
McHardy, N.; Haigh, A. J. B.; and Dolan, T. T., 1976, *Nature, London* (5562), v. 261, 698-699
Theileria parva, drug screening in vitro, only Menoctone showed appreciable activity, subsequent tests in cattle artificially infected with ECF confirmed activity of Menoctone against the disease, mode of action not clear but seems to act against schizont or earlier stages and probably along a widely occurring biochemical pathway
- Drugs, Mode of action
Mahmoud, A. A. F.; and Warren, K. S., 1974, *J. Immunol.*, v. 112 (1), 222-228
Schistosoma mansoni, mice, anti-inflammatory effects of tartar emetic and niridazole, suppression of schistosome egg granuloma
- Drugs, Mode of action
Makrinos, M. G.; et al., 1974, *J. Protozool.*, v. 21 (3), 445 [Abstract]
Leptomonas strains resistant to Berenil or to ethidium bromide, cytology, staining reactions, no apparent inhibition of kinetoplast DNA but nuclear DNA distinctly reduced in drug-adapted organisms
- Drugs, Mode of action
Manaiá, A. da C.; and Roitman, I., 1971, *Rev. Microbiol., S. Paulo*, v. 2 (4), 177-179
Crithidia fasciculata, inhibition of growth by ethidium bromide; more effective at 32°C than 28°C; adenine neutralized the action of ethidium
- Drugs, Mode of action
Manaiá, A. da C.; and Roitman, I., 1977, *J. Protozool.*, v. 24 (1), 192-195
Crithidia fasciculata grown in presence of ethidium bromide, dyskinetoplasty and growth inhibition, changes in oxidative metabolism and enzyme profiles
- Drugs, Mode of action
Mansingh, A.; and Rawlins, S. C., 1977, *Naturwissensch.*, v. 64 (1), 41
Boophilus microplus, antigonadotropic action of insect hormone analogues, inhibition of oviposition, mortality
- Drugs, Mode of action
Marr, J. J.; and Berens, R. L., 1977, *J. Infect. Dis.*, v. 136 (6), 724-732
Leishmania spp., in vitro study of anti-leishmanial effects of allopurinol and its metabolic derivative oxipurinol, suggested sites of action, reversal of antileishmanial effects by adenine and its derivatives
- Drugs, Mode of action
Marshall, I.; Homewood, C. A.; and Jewsbury, J. M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 287 [Demonstration]
Schistosoma mansoni, technique for measurement of worm activity as indication of drug action and worm response to drug
- Drugs, Mode of action
Matuschka, F. R., 1977, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 238 (3), 419-429
Toxoplasma gondii cysts in Mastomys natalensis (brain) (exper.), sulfamethoxypyrazine + pyrimethamine, no endodyogeny observed on treated cysts, effects on cyst ultrastructure, scanning and transmission electron microscopy
- Drugs, Mode of action
Maxie, M. G.; and Losos, G. J., 1977, *Vet. Parasitol.*, v. 3 (4), 277-281
Trypanosoma congolense, cattle, release of parasites from microcirculation after injection of berenil, suggested that berenil acts by making trypanosomes available to host defenses such as the macrophage system
- Drugs, Mode of action
Medina, H.; et al., 1955, *Arq. Biol. e Tecn.*, v. 10, 121-165
Astaril, tartar emetic and Repodral, effect on respiration and anaerobic glycolysis of Leishmania brasiliensis and isolated mouse diaphragm
- Drugs, Mode of action
Meister, A.; Tschaepe, M.; and Schroetter, E., 1977, *Pharmazie*, v. 32 (3), 174-177
human ascariasis, structure-activity relationships of phenol derivatives, possible ovicides
- Drugs, Mode of action
Melton, M. L.; and Sheffield, H. G., 1975, *J. Parasitol.*, v. 61 (4), 713-717
Toxoplasma gondii, degree of inhibition of penetration and multiplication in cultured cells by lasalocid, monensin, ormetoprim, sulfadimethoxine, and a combination of the latter two
- Drugs, Mode of action
Moczon, T., 1976, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 24 (4), 227-231
Fasciola hepatica miracidia, pesticides blocking activities of oxidoreductases, pesticide concentrations much lower than those used in field conditions for insect control
- Drugs, Mode of action
Moore, G. A., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 115 [Demonstration]
Schistosoma mansoni, morphological changes in tegument after treatment with hycanthane

- Drugs, Mode of action
Morales, N. M.; et al., 1972, J. Protozool., v. 19 (4), 667-672
Leishmania tropica, effects of ethidium bromide and several acridine dyes on kinetoplast DNA
- Drugs, Mode of action
Moreton, R. B.; and Gardner, D. R., 1976, Experientia, v. 32 (5), 611-612
n-trityl morpholine (Frescon), neurophysiological action on *Lymnaea stagnalis*
- Drugs, Mode of action
Mueller, M.; and Lindmark, D. G., 1976, Antimicrob. Agents and Chemotherapy, v. 9 (4), 696-700
Tritrichomonas foetus, *Trichomonas vaginalis*, *Entamoeba invadens*, uptake of metronidazole under anaerobic vs. aerobic conditions, effect on viability of *T. foetus*
- Drugs, Mode of action
Neame, K. D.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 287 [Demonstration]
Schistosoma mansoni, differences in schistosomicidal action of oxamniquine and hycanthone
- Drugs, Mode of action
Nguyen, B. T.; and Stadtsbaeder, S., 1975, Path. Europ., v. 10 (4), 307-315
Toxoplasma gondii in culture, trimethoprim alone or with sulfamethoxazole as synergist (cotrimoxazole) resulted in inhibition of intracellular multiplication, prolonged therapy resulted in eradication of organisms from cell monolayers; similar trials with spiramycin ineffective
- Drugs, Mode of action
Nielsen, M. H., 1976, Acta Path. et Microbiol. Scand., v. 84B (2), 93-100
Trichomonas vaginalis, in vitro treatment of exponentially growing cultures with metronidazole, effect on cell division and fine structure, findings indicate initial effect is inhibition of cell multiplication as well as impairment of protein-synthesizing capacity
- Drugs, Mode of action
Nolan, J.; and Schnitzerling, H. J., 1976, Pesticide Biochem. and Physiol., v. 6 (2), 142-147
Boophilus microplus, acaricide-resistant vs. -susceptible strains, substrate specificity and catalytic efficiency of critical acetylcholinesterase component
- Drugs, Mode of action
Ono, T.; and Inoki, S., 1975, Biken J., v. 18 (4), 257-265
Trypanosoma gambiense, mice, hydroxystilbamadine treatment, inhibition of kinetoplast duplication without influence on nuclear or cytoplasmic duplication; disorganization and disappearance of kinetoplast and its enveloping membrane shown by electron microscopy; failure to establish kinetoplastic clone probably due to inability of these forms to multiply
- Drugs, Mode of action
Ono, T.; and Inoki, S., 1976, Biken J., v. 19 (2), 63-69
p-rosaniline-sensitive and -resistant strains of *Trypanosoma gambiense* in mice, interaction of p-rosaniline, furazolidon on kinetoplast; development of resistance, appearance of akinetoplastic forms
- Drugs, Mode of action
Ono, T.; and Nakabayashi, T., 1976, Biken J., v. 19 (4), 171-177
Trypanosoma gambiense, morphology following neocarzinostatin injection in mice (exper.), anucleate forms, unusual structures, electron microscopy
- Drugs, Mode of action
Opperdoes, F. R.; et al., 1976, Exper. Parasitol., v. 40 (2), 198-205
Trypanosoma brucei brucei, salicylhydroxamic acid (SHAM), inhibition of trypanosomal respiration in vitro, determination of toxicity for rats, determination of plasma levels in rats, no significant therapeutic effect in vivo, discussion of possibility that SHAM could still be trypanocidal if used in conjunction with another inhibitor of glycolysis
- Drugs, Mode of action
Opperdoes, F. R.; Borst, P.; and Fonck, K., 1976, FEBS Letters, v. 62 (2), 169-172
Trypanosoma brucei, inhibition of glycerol-3-phosphate oxidase by salicylhydroxamic acid but motility and ATP production not drastically affected nor course of infection in rats, evidence for deficiencies in present ideas on trypanosome glycolysis, implications for chemotherapy
- Drugs, Mode of action
Opperdoes, F. R.; de Rijke, D.; and Borst, P., 1976, Comp. Biochem. and Physiol., v. 54 (1B), 7-12
Crithidia luciliae, characterization of mitochondrial adenine nucleotide translocator and ATPase, significant differences between ATPase of trypanosomes and their hosts that could potentially be exploited in chemotherapy
- Drugs, Mode of action
Palmer, R. M. J.; and Weatherall, M., 1977, Brit. J. Pharmacol., v. 59 (3), 472P
anti-malarial drugs, migration of horse leucocytes in vitro, inhibition of migration is specific to neither anti-malarial activity nor chemical structure
- Drugs, Mode of action
Pandey, V. C.; Dutta, G. P.; and Rao, V. K. M., 1976, Indian J. Exper. Biol., v. 14 (2), 142-144
Entamoeba histolytica-infected rat caeca, significant increase in RNase and DNase activity, enzyme level reduced almost to normal values by treatment with emetine hydrochloride, enterovioform, or metronidazole

Drugs, Mode of action

- Panitz, E., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 111-112
Eimeria tenella, chicks, megalomicin complex, anticoccidial activity, effect of structural changes of components

Drugs, Mode of action

- Parker, R. D., jr.; and MacInnis, A. J., 1977, Exper. Parasitol., v. 41 (1), 2-16
Hymenolepis diminuta, cell-free system for protein synthesis, isolation and purification and reconstruction in vitro; puromycin inhibition of protein synthesis in this system indicated its potential use in investigating anthelmintic action

Drugs, Mode of action

- Peters, W.; et al., 1977, Ann. Trop. Med. and Parasitol., v. 71 (4), 407-418
Plasmodium berghei, chloroquine sensitive and resistant strains, or mixed infections with *P. yoelii nigeriensis*, efficacy and mode of action of mefloquine in mice (exper.), evidence of potent blood schizonticide with effects enhanced by addition of pyrimethamine, sulfaphenazole or primaquine

Drugs, Mode of action

- Peters, W.; Portus, J. H.; and Robinson, B. L., 1975, Ann. Trop. Med. and Parasitol., v. 69 (2), 155-171
Plasmodium berghei, use of drug-sensitive strain and several drug-resistant lines derived from it for evaluation of a selection of old and new compounds, value as screening system for blood schizontocidal activity

Drugs, Mode of action

- Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1976, J. Parasitol., v. 62 (6), 993-999
Toxoplasma gondii, adenine arabinoside inhibits DNA synthesis, more inhibitory to parasite than to cultured human fibroblast host cells, selection of single-step resistant mutant; cytosine arabinoside notably more inhibitory to cultured human cells than to *T. gondii*

Drugs, Mode of action

- Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1977, Exper. Parasitol., v. 42 (1), 44-55
Toxoplasma gondii, inhibition of growth and RNA and DNA synthesis by 5-fluorodeoxyuridine (FUDR), isolation and partial characterization of FUDR-resistant mutant also resistant to fluorouracil and fluorouridine, examination of possible mechanisms of resistance yielded new insights into pyrimidine salvage pathways of the parasite

Drugs, Mode of action

- Phillips, J. L.; Sturman, G.; and West, G. B., 1976, Brit. J. Pharmacol., v. 57 (3), 417-420
 comparative study of the interaction between histamine and piperazine and histamine and bephenium in *Ascaris suum*

Drugs, Mode of action

- Picq, J. J.; Charmot, G.; and Ricosse, J. H., 1972, Medecine Trop., v. 32 (4), 527-546
 "semi-immune" humans with acute attacks of *Plasmodium falciparum*, comparison drug trials using antemal and nivaquine, biochemical reactions of drug agents on trophozoites

Drugs, Mode of action

- Pieri, F.; and Andre, L. J., 1974, Medecine Trop., v. 34 (2), 290-294
 comparative study of amoebicidal drugs and their therapeutic effects

Drugs, Mode of action

- Porter, M.; and Peters, W., 1976, Ann. Trop. Med. and Parasitol., v. 70 (3), 259-270
Plasmodium berghei, drug-sensitive strains successfully suppressed by WR 122,455, laboratory trials in mice comparing action with that of chloroquine and quinine

Drugs, Mode of action

- Powers, K. G.; Aikawa, M.; and Nugent, K. M., 1976, Exper. Parasitol., v. 40 (1), 13-24
Plasmodium knowlesi in rhesus monkeys, clinical and morphologic effects of clindamycin and its N-demethyl-4'-pentyl analog

Drugs, Mode of action

- Pradella, G.; et al., 1977, Riv. Zootecn. e Vet. (2), 161-165
 thiabendazole, pharmacokinetics in ovine serum, spectrofluorimetric analysis of free thiabendazole, and of free 5-OH-thiabendazole and its metabolites

Drugs, Mode of action

- Raether, W.; and Seidenath, H., 1976, Tropenmed. u. Parasitol., v. 27 (2), 238-244
 trypanocidal effects and action of preparation 98/202 in exper. *Trypanosoma rhodesiense* infections in *Macaca arctoides* (possible new animal model for late stages of *T. rhodesiense* infections in man); animals previously treated with pentamidine or diminazene developed resistance to treatment

Drugs, Mode of action

- Rahman, M. S.; et al., 1977, N. Zealand Vet. J., v. 25 (4), 79-83
 metabolic changes in *Moniezia expansa*, *Haemonchus contortus*, and *Fasciola hepatica* from mebendazole-treated sheep, total nucleotide concentrations, ATP levels, ATP/ADP ratios; detachment of *Fasciola hepatica* from host tissue diminished its contact with the drug

Drugs, Mode of action

- Rahman, M. S.; and Bryant, C., 1977, Internat. J. Parasitol., v. 7 (5), 403-409
Moniezia expansa, effects of mebendazole and cambendazole on respiratory metabolism

Drugs, Mode of action

- Ramisz, A.; and Komorowski, A., 1975, Polskie Arch. Wet., v. 17 (4), 623-631
Trichinella spiralis, muscle phase in mice, fenchlorphos and bromophos, inhibition of host cholinesterase activity in motor end plates; increased activity of cholinergic system as main factor in pathogenesis

- Drugs, Mode of action
Reid, V. E.; and Friedkin, M., 1973, *Molec. Pharm.*, v. 9 (1), 74-80
Plasmodium berghei-infected mouse erythrocytes, increase of thymidylate synthetase, kinetic and physical properties, suggests possible target for chemotherapeutic attack
- Drugs, Mode of action
Renault, J.; Cavier, R.; and Renault, S., 1976, *Compt. Rend. Acad. Sc., Paris*, v. 282, s. D, (5), 509-511
Entamoeba dysenteriae, secondary aminoquinolines, influence of alkylamino chain length and position on activity in vitro and in vivo
- Drugs, Mode of action
Rew, R. S.; and Saz, H. J., 1977, *J. Parasitol.*, v. 63 (1), 123-129
Litomosoides carinii, Dipetalonema viteae, and particularly Brugia pahangi microfilariae, oxygen requirements, carbohydrate metabolism, effect of levamisole
- Drugs, Mode of action
Romanowski, R. D.; et al., 1975, *J. Parasitol.*, v. 61 (4), 777-778
Haemonchus contortus, cambendazole-resistant vs. -sensitive strains, effect on fumarate reductase of cambendazole, thiabendazole, and levamisole
- Drugs, Mode of action
Rougemont, A.; et al., 1974, *Medecine Trop.*, v. 34 (4), 508-522
Onchocerca volvulus, histopathology of cutaneous reactions and microfilarial response in persons treated with diethylcarbamazine or suramine
- Drugs, Mode of action
Ryley, J. F.; and Wilson, R. G., 1976, *Parasitology*, v. 73 (3), 287-309
Eimeria tenella, features of anticoccidial activity of 9 older anticoccidials re-investigated both in vivo and in cell culture, methodology discussed in relation to more active and more recent anticoccidials, further experiments with robenidine reported
- Drugs, Mode of action
Saleh, S.; et al., 1976, *Pharmacol. Research Commun.*, v. 8 (4), 359-368
Schistosoma mansoni in mice (exper.), comparative effects of antimonial and non-antimonial schistosomicides on host carbohydrate metabolism; antimonials did not affect metabolism while non-antimonial (niridazole) showed similar effects in host and parasite
- Drugs, Mode of action
Saliba, E. K.; Sweatman, G. K.; and Kwar, N. S., 1971, *J. Med. Entom.*, v. 8 (1), 73-83
Ornithodoros savignyi, respiration rate and longevity of untreated ticks at different temperatures, effect of ronnel on respiration rate at different temperatures using 3 application methods, statistical analysis, ronnel not practically useful as systemic pesticide against O. savignyi
- Drugs, Mode of action
Sargeant, P. G.; and Lumsden, W. H. R., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 54-56
Entamoeba histolytica in vitro, action of furazolidone and iodochlorhydroxyquin alone and as combination drug (depandal)
- Drugs, Mode of action
Sasi, P. K.; and Kaleysaraj, R., 1975, *Experientia*, v. 31 (11), 1261-1262
Ascaris lumbricoides, incubation in medium containing sub-lethal concentrations of piperazine, decreased phospholipid level, partial stimulation of phospholipase C activity, partial inhibition of choline kinase activity
- Drugs, Mode of action
Saz, H. J.; and Dunbar, G. A., 1975, *J. Parasitol.*, v. 61 (5), 794-801
Litomosoides carinii, Dipetalonema witei, Brugia pahangi, stibophen, inhibition of phosphofructokinase and lactate formation, effect on internal hexose phosphate accumulation, inhibition of aldolase, comparison with potassium antimony tartrate (inhibits PFK at higher concentrations but not aldolase); Ascaris suum, Hymenolepis diminuta, stibophen inhibition of phosphofructokinase
- Drugs, Mode of action
Saz, H. J.; and Lescure, O. L., 1968, *Molec. Pharm.*, v. 4 (4), 407-410
Ascaris lumbricoides var. suis, inhibition by anticestodal agents of mitochondrial ³²P-ATP exchange reaction indicates that selective toxicity of these compounds for cestodes is a result of differences in permeability between these two groups of helminths
- Drugs, Mode of action
Schuntner, C. A.; and Thompson, P. G., 1977, *J. Austral. Entom. Soc.*, v. 15 (4), 1976, 388
Boophilus microplus larvae, formamidine derivatives, inhibition of carbaryl oxidizing enzyme as primary lesion in lethal action
- Drugs, Mode of action
Schuster, F. L.; and Rechthand, E., 1975, *Antimicrob. Agents and Chemotherapy*, v. 8 (5), 591-605
Naegleria fowleri, N. gruberi, amphotericin B, in vitro effects on growth, viability, and ultrastructure
- Drugs, Mode of action
Searle, A. J. F.; and Willson, R. L., 1976, *Xenobiotica*, v. 6 (8), 457-464
metronidazole degradation by intestinal flora, rat caecal contents in vitro
- Drugs, Mode of action
Senft, A. W.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 832-840
Schistosoma mansoni, mice, hycanthone treatment, intrinsic content of serotonin and uptake of serotonin by drug-exposed worms, results suggest mode of action of hycanthone is not due to increased serotonin uptake; morphological changes in hycanthone-treated worms

- Drugs, Mode of action
Sharpe, M. J.; and Lee, D. L., 1977, Parasitology, v. 75 (2), xvi [Abstract]
Trichostrongylus colubriformis, Nematospiroides dubius, effect of levamisole on adenylate energy charge and on levels of acetylcholinesterase
- Drugs, Mode of action
Shaw, J. R.; and Erasmus, D. A., 1977, Parasitology, v. 75 (1), 101-109
Schistosoma mansoni, technique for in vitro maintenance of mature worms assessed by criteria in general use as well as by more critical analysis in terms of ultrastructure (particularly of female reproductive system), comparison between changes usually associated with in vitro culture and those induced by action of Astiban, differential cell death associated with both
- Drugs, Mode of action
Sheffield, H. G.; and Melton, M. L., 1975, J. Parasitol., v. 61 (4), 704-712
Toxoplasma gondii, fine structure and multiplication in cell cultures, effects of pyrimethamine and sulfadiazine singly and in combination
- Drugs, Mode of action
Sherman, I. W., 1974, J. Protozool., v. 21 (3), 452 [Abstract]
Plasmodium knowlesi cell-free system, requirements for optimum protein synthesis, effect of various drugs
- Drugs, Mode of action
Sherman, I. W., 1976, Comp. Biochem. and Physiol., v. 53 (4B), 447-450
Plasmodium knowlesi ribosomes, development of highly active cell-free protein synthesizing system, use in assaying antimalarials
- Drugs, Mode of action
Sherman, I. W.; and Jones, L. A., 1976, J. Protozool., v. 23 (2), 277-281
Plasmodium lophurae, reliable procedure for isolation of active ribosomes, optimal requirements for in vitro synthesis of proteins, effects of variety of drugs on duck reticulocyte and plasmodial ribosomes in cell-free protein-synthesizing systems (restricted selectivity not obtained)
- Drugs, Mode of action
Sheth, U. K., 1975, Progr. Drug Research, v. 19, 147-157
comprehensive review of drug action of commonly used human anthelmintics
- Drugs, Mode of action
Shoeb, H. A., 1976, Egypt. J. Bilharz., v. 3 (1), 11-37
human schistosomiasis, classification, structure, and activity of schistosomicides, extensive review
- Drugs, Mode of action
Simpkin, K. G.; and Coles, G. C., 1976, Parasitology, v. 73 (2), iv [Abstract]
Nematospiroides dubius, Nippostrongylus brasiliensis, Nematodirus spathiger, modes of action of thiabendazole and mebendazole apparently different from those reported on other species
- Drugs, Mode of action
Simpson, C. F., 1975, Am. J. Vet. Research, v. 36 (10), 1443-1446
Anaplasma marginale, calves treated with oxytetracycline, adverse effects on morphologic features of anaplasma bodies
- Drugs, Mode of action
Simpson, C. F., 1977, Am. J. Vet. Research, v. 38 (10), 1509-1513
Paranaplasma caudata, calves, morphologic alteration of paranaplasma bodies following treatment with oxytetracycline; blood and liver biopsy specimens
- Drugs, Mode of action
Sims, P.; and Gutteridge, W. E., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 276 [Abstract]
Trypanosoma cruzi in vitro, action of SQ 18506 on epimastigote and blood trypomastigote forms
- Drugs, Mode of action
Sims, P.; and Gutteridge, W. E., 1976, Parasitology, v. 73 (2), iii [Abstract]
Trypanosoma cruzi, SQ 18,506, no substantial inhibitory effects on energy metabolism or membrane function, concluded that nucleic acid synthesis is primary target of this drug
- Drugs, Mode of action
Sims, P.; and Newsom, R., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 20 [Demonstration]
Trypanosoma cruzi, ultrastructural changes induced by SQ 18,506
- Drugs, Mode of action
Singh, K.; and Dutta, G. P., 1976, Indian J. Med. Research, v. 64 (8), 1185-1191
action of metabolic inhibitors on Entamoeba histolytica in axenic culture
- Drugs, Mode of action
Singhal, K. C.; Madan, B. R.; and Saxena, P. N., 1977, Indian J. Med. Research, v. 66 (3), 517-521
Setaria cervi, effects of various chemicals on parasite nerve-muscle complexes and locomotion using worms with cuticular permeability barriers removed
- Drugs, Mode of action
Smalley, M. E., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 526-529
Plasmodium falciparum, asexual erythrocytic parasites destroyed by chloroquine but mature gametocytes are not, the drug clumped pigment of developing gametocytes with only immature gametocytes in the final stages of development surviving
- Drugs, Mode of action
Soyfer, J. C.; and Cristau, B., 1972, Medecine Afrique Noire, v. 19 (5), 439-446
pharmacology, chemical structures, therapeutic use, anthelmintics currently in use for human helminthiasis

- Drugs, Mode of action
Srivastava, V. M. L.; and Khan, M. M., 1976, Indian J. Exper. Biol., v. 14 (4), 504-505
in vitro enzymatic demethylation of diethylcarbamazine mediated by rat liver microsomes
- Drugs, Mode of action
Stammers, B. M., 1975, Ztschr. Parasitenk., v. 47 (2), 145-150
Fasciola hepatica, disruption of spermatogenesis, known fasciolicides and other anthelmintics tested
- Drugs, Mode of action
Stammers, B. M., 1976, Research Vet. Sc., v. 20 (2), 174-179
Fasciola hepatica, sheep (exper.), effects of nitroxylnil administered at various intervals after infection on flukes surviving treatment (occurrence of structurally abnormal flukes, deleterious effect on fluke growth and egg hatchability, reduced faecal egg counts)
- Drugs, Mode of action
Sylla, O., 1973, Medecine Afrique Noire, v. 20 (11), 827-834
human trypanosomiasis, drugs in current use, clinical indications, mode of action
- Drugs, Mode of action
Tadros, M. B., 1973, Med. J. Cairo Univ., v. 41 (4), 301-308
morphological changes in Schistosoma mansoni worms after treatment with sodium antimony dimercaptosuccinate, hamsters
- Drugs, Mode of action
Tanaka, H.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (1), 19-26
Litomosoides carinii in Sigmodon hispidus (exper.), suppression of microfilaricidal activity of diethylcarbamazine by anti-lymphocyte and anti-thymocyte serum establishes role of lymphocytes in mechanism of drug action
- Drugs, Mode of action
Tanowitz, H. B.; et al., 1975, Ann. Trop. Med. and Parasitol., v. 69 (1), 19-28
metronidazole, suggested mechanism of antimicrobial action and selective toxicity for Entamoeba histolytica as opposed to mammalian cell types and Trypanosoma cruzi
- Drugs, Mode of action
Taylor, E. C.; et al., 1977, J. Med. Chem., v. 20 (9), 1215-1218
Trypanosoma cruzi, 2,4-diaminocycloalka[pteridines tested for activity as dihydrofolate reductase inhibitors
- Drugs, Mode of action
Thomas, H., 1977, Bol. Chileno Parasitol., v. 32 (1-2), 2-6
cysticercosis and other cestode spp., trials with praziquantel in various experimental hosts, rapidly effective in small doses with evidence of action on carbohydrate metabolism of the parasite
- Drugs, Mode of action
Tomosky-Sykes, T. K.; and Bueding, E., 1977, J. Parasitol., v. 63 (2), 259-266
Schistosoma mansoni, hycanthone effects on muscular activity and neurotransmitter systems cannot be related to mode of antischistosomal action of this drug, effects occur after hepatic shift, are not demonstrable with antischistosomal analogs of hycanthone, and are also elicited in hycanthone-resistant worms; histochemical observations with dansylated compounds
- Drugs, Mode of action
Ucros, H.; Leon, W.; and Krassner, S. M., 1977, Exper. Parasitol., v. 41 (2), 410-414
Trypanosoma cruzi, Y and Costa Rica strains compared, effect of ethidium bromide on growth, dyskinetoplasty, and respiration
- Drugs, Mode of action
Vakil, B. J.; and Dalal, N. J., 1974, Progr. Drug Research, v. 18, 353-364
Entamoeba histolytica, humans, techniques for comparative evaluation of amoebicidal drugs: sites of action, efficacy, side effects, and toxicity
- Drugs, Mode of action
Vanhaelen-Lindhout, E.; and Smit, A. M., 1971, Trop. and Geogr. Med., v. 23 (4), 381-384
abnormal Trichuris trichiura eggs in feces of children during and immediately after drug therapy with thiabendazole: Netherlands (previous residents of Surinam)
- Drugs, Mode of action
Vercelli-Retta, J.; et al., 1975, Ztschr. Parasitenk., v. 48 (1), 15-23
Echinococcus granulosus, hydatid cysts from human and bovine lungs, germinal membrane, histochemistry and histoenzymology, enzymes, lipids, metabolic pathways, possible endocrine system; possible future pharmacological studies for interference with parasite development
- Drugs, Mode of action
Waalkes, T. P.; and Makulu, D. R., 1976, National Cancer Inst. Monograph (43), 171-177
Pneumocystis carinii pneumonia in humans, pharmacologic aspects of pentamidine, possible serious renal toxicity in immunodepressed patients, probable inhibition of dihydrofolate reductase in all tissues
- Drugs, Mode of action
Wagner, K. P.; and Krassner, S. M., 1976, Exper. Parasitol., v. 39 (2), 222-233
Leishmania tarentolae promastigotes, replicating techniques, isolation of stable mutant strains resistant to chloramphenicol, isolation of cell lines stress-adapted to streptomycin and to high culture temperatures, factors influencing resistance, mode of action of chloramphenicol (inhibition of protein synthesis and proline oxidation)

Drugs, Mode of action

Wan, Y. P.; Porter, T. H.; and Folkers, K., 1974, Proc. National Acad. Sc., v. 71 (3), 952-956

inhibition of electron transfer mechanisms of Plasmodium by quinones, possible use as curative and prophylactic antimalarials, laboratory trials with experimental animals

Drugs, Mode of action

Wang, C. C., 1976, Biochem. Pharmacol., v. 25 (3), 343-349

Eimeria tenella, relationship of respiration to sporulation and excystation, inhibition of respiration during sporulation and excystation by quinolone coccidiostats, amquinat-resistant strain much less subject to inhibition by quinolones, 2-hydroxy-naphthoquinone coccidiostats are equally effective inhibitors against wild type and amquinat-resistant mutant

Drugs, Mode of action

Wang, C. C.; Stotish, R. L.; and Poe, M., 1975, J. Protozool., v. 22 (4), 564-568

Eimeria tenella oocysts, dihydrofolate reductase, isolation and purification, kinetic parameters and molecular weight estimate; pyrimethamine is potent inhibitor of activity of E. tenella dihydrofolate reductase but less effective inhibitor of dihydrofolate reductase of chicken liver, difference may explain in vivo therapeutic action of pyrimethamine, opposite results with methotrexate

Drugs, Mode of action

Warhurst, D. C., 1973, J. Protozool., v. 20 (4), 529

Plasmodium berghei N67, P. berghei yoelii 17X, pigmented strains naturally resistant to chloroquine, surprisingly shown to possess high-affinity chloroquine receptors present in sensitive strains, presence of receptors apparently linked with production of haemozoin which will itself concentrate chloroquine, suggested that chloroquine interferes with sequestration of haemin as haemozoin

Drugs, Mode of action

Warhurst, D. C.; Homewood, C. A.; and Baggailey, V. C., 1974, Ann. Trop. Med. and Parasitol., v. 68 (3), 265-281

Plasmodium berghei, erythrocytic forms in vitro, technique for study of autophagic vacuole formation (pigment clumping), effect of chloroquine alone or with various cytotoxic drugs, may be used to study mode of action of antimalarials, effects of cultivation and other treatments upon malaria parasites, and as assay system for chloroquine and similar drugs

Drugs, Mode of action

Warhurst, D. C.; and Mallory, P., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 20-21 [Demonstration]

binding site for antimalarial schizontocides, chloroquine and quinine apparently compete for same site, other drugs with side-chain similarities and sufficient lipophilicity may also compete

Drugs, Mode of action

Warhurst, D. C.; Robinson, B. L.; and Peters, W., 1976, Ann. Trop. Med. and Parasitol., v. 70 (3), 253-258

Plasmodium berghei, mice, erythromycin potentiation of action of chloroquine on chloroquine-resistant strains, comparison of oral and subcutaneous routes and erythromycin base and stearate

Drugs, Mode of action

Warhurst, D. C.; and Thomas, S. C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 15 [Demonstration]

stereochemical similarities between antimalarial schizontocides in relation to binding to receptor sites in intraerythrocytic malaria parasites

Drugs, Mode of action

Warhurst, D. C.; and Thomas, S. C., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 7-8 [Demonstration]

Plasmodium berghei in vitro, localization of mepacrine in merozoites

Drugs, Mode of action

Warhurst, D. C.; and Thomas, S. C., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 428 [Demonstration]

Plasmodium berghei, chloroquine treatment in vitro causes digestive vesicles containing hemozoin to clump together, competitive inhibition of this clumping by quinine and oligomycin, possibility that clumping site is a membrane ATP-ase used by the intraerythrocytic parasite

Drugs, Mode of action

Watts, S. D. M., 1977, Parasitology, v. 75 (2), xviii [Abstract]

Schistosoma mansoni, effect of 1,7-bis(p-aminophenoxy)heptane (153C51) on glucose transport, schistosomicidal activity apparently not due to this effect

Drugs, Mode of action

Williamson, J.; and Macadam, R. F., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 130-137

Trypanosoma rhodesiense, effects of puromycin and its aminonucleoside, cordycepin and nucleocidin on fine structure

Drugs, Mode of action

Williamson, J.; and McLaren, D. J., 1974, J. Protozool., v. 21 (3), 453-454 [Abstract]

Trypanosoma rhodesiense, induction of cytoplasmic clefts by puromycin, cordycepin, and nucleocidin, results suggest drugs may prevent uptake of required unsaturated fatty acids and promote excessive intake of saturated acids

Drugs, Mode of action

Williamson, J.; and McLaren, D. J., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 263 [Demonstration]

Trypanosoma rhodesiense in mice (exper.), cordycepin-induced cytoplasmic clefts in trypanosomes and resulting changes in fatty acid metabolism, ultrastructural studies

Drugs, Mode of action

- Williamson, J.; and Scott-Finnigan, T. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 1-2 [Demonstration]
 Trypanosoma congolense, in vitro testing of antiviral and antitumor compounds with possible trypanicidal effects, probable RNA inhibition

Drugs, Mode of action

- Wiseman, R. A.; Woodruff, A. W.; and Pettitt, L. E., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 591-598
 Toxocara canis, effects of diethylcarbamazine and thiabendazole on survival of larvae in mice (exper.); humans treated with diethylcarbamazine showed decreases in antibody levels soon after therapy started

Drugs, Mode of action

- Woolhouse, N. M.; and Kaye, B., 1977, *Parasitology*, v. 75 (1), 111-118
 Schistosoma mansoni, uptake and retention of oxamniquine and its metabolites by both sexes of worm following single oral or intramuscular dose in mice, and in vitro

Drugs, Mode of action

- Yoneda, S.; Kimura, E.; and Castellani, B. R., 1977, *Experientia*, v. 33 (9), 1201-1202
 Trypanosoma cruzi, Ro 7-1051, deleterious effect in vitro on intracellular and extracellular forms represented by nuclear pyknosis, fragmentation, and lysis of parasites, and by reduced ability to infect cells

Drying. See Desiccation.

Duodenum. See Intestine.

Dysentery

- Beer, R. J.; and Rutter, J. M., 1972, *Research Vet. Sc.*, v. 13 (6), 593-595
 Trichuris suis, weaned pigs (exper.), syndrome resembling swine dysentery, demonstration of spirochaetal invasion of colonic mucosa, possible significance of association of nematode and bacteria

Dysentery

- Burden, D. J., 1976, *Parasitology*, v. 73 (2), iv-v [Abstract]
 Blastocystis sp., pigs, frequently found in feces of cases of diarrhea and dysentery, causal relationship not established

Dysentery

- Dellamonica, P.; et al., 1976, *Nouv. Presse Med.*, v. 5 (30), 1913 [Letter]
 Giardia intestinalis in woman with associated urticaria and dysentery, relief of symptoms after metronidazole therapy, clinical case report: Nice, France

Dysentery

- Gilman, R. H.; Davis, C.; and Fitzgerald, F., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 313-316
 Trichuris infection and amoebic dysentery in Orang Asli aborigine children, comparison of two diseases, results support hypothesis that heavy Trichuris infection itself is responsible for a symptom complex: Malaysia

Dysentery

- Jo Kian Tjai; Sutanto, A. H.; and Simatupang, J., 1976, *Paediat. Indonesiana*, v. 16 (9-10), 412-414
 amoebic dysentery in children, clinical trials with metronidazole, recommendations for single dose therapy especially in poor, developing areas after evaluation of long-term results: Indonesia

Dysentery

- Lara Aguilera, R.; and Bernal, R. M., 1974, *Bol. Med. Hosp. Inf.*, v. 31 (4), 779-784
 Balantidium coli, dysentery in young children, frequent association with Trichuris trichiura infections in endemic areas, case reports, metronidazole: Mexico

Dysentery

- Patel, R. S., 1968, *Med. J. Zambia*, v. 2 (1), 33
 case reports of 2 children presenting with acute dysentery of Schistosoma mansoni origin, possible transmission while swimming in lake in Tanzania

Dysentery

- Scragg, J. N.; and Proctor, E. M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 824-825
 Entamoeba histolytica, amoebic dysentery in children successfully treated with tinidazole in weight related dosages, recommended as safe and simple form of therapy: South Africa

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Dailey, M. D.; and Ridgway, S. H., 1976, J. Wildlife Dis., v. 12 (1), 45-47
Nasitremitidae [sp.], possible cause of changes in acoustic behavior and hearing loss, *Tursiops truncatus* (inner ear)
- Ear
Prasansuk, S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 260 [Letter]
Gnathostoma spinigerum in man, neuro-otological symptoms produced by mature male worm later removed from right external acoustic meatus, residual facial palsy, case report: Bangkok
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Stagno, S.; et al., 1977, Pediatrics, Am. Acad. Pediat., v. 59 (5), 669-678
human congenital *Toxoplasma [gondii]*, auditory and visual defects resulting from symptomatic and subclinical infections, need for early screening of suspected cases in order to prevent chorioretinitis and ameliorate brain damage
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Katamine, D.; and Murakami, F., 1974, Internat. Med. Found. Japan. Reporting series (4), 151-164
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(*Plasmodium falciparum*; *Entamoeba histolytica*; *Leishmania donovani*; *Schistosoma mansoni*; *S. haematobium*; *Echinococcus granulosus*; *Wuchereria bancrofti*; *Acanthocheilonema perstans*; *onchocerciasis*; *Taenia solium*; *Trichinella spiralis*; *Ancylostoma duodenale*; *Necator americanus*)
- Easter Island
Meerovitch, E.; and Healy, G. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 538 [Letter]
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Wuchereria bancrofti, *Brugia malayi*, *B. pahangi*, demonstration of exsheathing of microfilariae on thick blood film or on agar plate, effects of temperature on exsheathing
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Wuchereria bancrofti, *Brugia pahangi*, exsheathing of microfilariae on thick blood film or on agar plate, effects of temperature, salinity, and pH
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Nippostrongylus brasiliensis, role of gene expression in regulating cuticle formation during second molt, results strongly suggest that messenger RNA specific for molting was synthesized at 90 hours
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Campbell, W. C.; and Thomson, B. M., 1973, Austral. Vet. J., v. 49 (2), 110-111
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Sacculina carcini, 3 stages of ecdysial gland regression in infected *Carcinus maenas*, ultrastructure
- Ecdysis
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comparative observations, feeding, molting, oviposition and hatching, ixodid ticks, laboratory cultural conditions
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Hyalomma (H.) dromedarii, *H. (H.) anatolicum excavatum*, premolting nymphs, engorged and ovipositing females, total lipid fatty acids and free fatty acid fractions of hemolymph and gut and molting fluids, changes in relation to feeding, molting, and oviposition

Ecdysis

Mango, C.; Odhiambo, T. R.; and Galun, R., 1976, *Nature*, London (5549), v. 260, 318-319
Ornithodoros moubata, females, induction of super-moulting by ingestion of ecdysone or ponasterone A, increased body weight and egg output, possible practical implications

Ecdysis

Parker, S.; and Croll, N. A., 1976, *Exper. Parasitol.*, v. 40 (1), 80-85
Dictyocaulus viviparus, pepsin did cause exsheathment but was not an absolute requirement, exsheathment occurred in other proteases and in chitinase at appropriate pH optima, concluded that exsheathment in vivo is caused by host gut enzymes

Ecdysis

Purnell, R. E.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 139-144
Rhipicephalus appendiculatus (unfed nymphs; engorged nymphs; moulting nymphs; unfed adults), effects of irradiation assessed by evaluating subsequent performance of ticks when fed on rabbits (mortality, attachment, feeding, mating, egg-laying); effects of irradiation on *Theileria parva* in salivary glands of adult ticks

Ecdysis

Robertson, A. S.; et al., 1975, *J. Med. Entom.*, v. 12 (5), 530-534
Amblyomma americanum, molting behavior of engorged nymphs and larvae in 2 contrasting habitats, effect of environmental conditions on molting time and post-molt activity: Cherokee Co., Oklahoma

Ecdysis

Rockett, C. L., 1975, *J. Insect Physiol.*, v. 21 (12), 1939-1944
Ornithodoros tartakovskyi, limb regeneration and apolysis process studies by amputations at various stages; coagulation of haemolymph

Ecdysis

Rogers, W. P.; and Brooks, F., 1976, *Internat. J. Parasitol.*, v. 6 (4), 315-319
Haemonchus contortus, suggested that exsheathing fluid contains a zinc metalloenzyme (probably leucine aminopeptidase) which is involved in process of exsheathment

Ecdysis

Semtner, P. J.; Sauer, J. R.; and Hair, J. A., 1973, *J. Med. Entom.*, v. 10 (2), 202-205
Amblyomma americanum, molting time of replete nymphs under field conditions, seasonal variance; post-molt behavior of adults during first and second summer in different habitats, survival, overwintering success

Ecdysis

Smales, L. R., 1977, *Internat. J. Parasitol.*, v. 7 (6), 449-456
Labiostromylus eugenii, life history: embryogenesis, larval development within egg, hatching process, second and third stage larval morphology and development, optimal temperatures

Ecdysis

Smales, L. R.; and Sommerville, R. I., 1977, *Internat. J. Parasitol.*, v. 7 (3), 205-209
Labiostromylus eugenii, exsheathment, important components of stimulus were pCO₂, pH, and temperature, similar to trichostromylids

Ecdysis

Sommerville, R. I., 1976, *J. Parasitol.*, v. 62 (2), 242-246
Haemonchus contortus, development and ecdysis in vitro, effects of changes in both ionic composition and osmotic pressure, potassium as necessary component of salt solution

Ecdysis

Sommerville, R. I.; and Davey, K. G., 1976, *Internat. J. Parasitol.*, v. 6 (5), 433-439
Anisakis sp. larva, cuticle formation and ecdysis in vitro, development restarted by physico-chemical stimuli (effect of different media, carbon dioxide, storage, temperature), feeding does not occur until after moulting

Ecdysis

Svarc, R., 1977, *Biologia, Bratislava*, v. 32 (8), s. B, *Zool.* (3), v. 32 (8), 575-584
Cystocaulus ocreatus, penetration of first stage larvae into snails, localization, morphological changes during maturation, moulting

Ecdysis

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Trichostrongylus retortaeformis growth patterns, moulting cycle, population growth profile

Ecology

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Myxobolus ellipsoides bramaeformis, infection levels similar in central and littoral portions of lake; infection of tench, *Tinca tinca*, localized mainly on gills, occasionally in swimbladder, rarely diffuse; slight pathological effects, no mortality; limnological data giving no ecological clue to distribution: lake Trasimeno

Ecology

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Probopyrus pandalicola, energy flow in parasitized and unparasitized laboratory *Palaeomonetes pugio* population, secondary reproduction, metabolism, ingestion and egestion; temperature, season, host age, sex, and reproductive condition, effect on energetics of host-parasite systems

Ecology

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ectoparasites of small mammals, prevalence in relation to ecological factors (geology, soil type, vegetation patterns), family of host and sex of host; technique for live parasitism rates: Schleswig-Holstein

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Ecology

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Asympliodora tincae, incidence in Tinca tinca (intestine), limnological characteristics of lake, distribution in lake corresponding with that of intermediate host: Lake Trasimeno

Ecology

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Haemonchus contortus, development and survival of free-living stages on pasture studied over period of 3 years, only in July, August, and September were climatic conditions favorable, concluded that climate in Southern England is not ideal for development and survival of preparasitic stages

Ecology

Gibson, T. E.; and Everett, G., 1976, Research Vet. Sc., v. 20 (2), 158-161

Nematodirus filicollis, development and survival of eggs placed on grass plots over a period of a year, extraordinary persistence of eggs and larvae under weather conditions of southern England makes control difficult

Ecology

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Dermacentor reticulatus, presence in suburban biotope, ecological aspects, epidemiological implications: Grenoble

Ecology

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Ecology

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Schistosoma mansoni, factors involved in transmission, irrigation canals appear to be most dangerous source of contamination for human population: Guadeloupe

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[Checklist includes 388 bird species and contains both published and unpublished records. For records from specific hosts, see entries in Supplement 22, Part 7, Hosts.]

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Ecology

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Dermacentor variabilis, larvae and nymphs, relationships with nesting *Peromyscus*, population peaks in April and June, relationships with mouse populations, no differences between north- and south-facing hill slope locations; handsorting of nest material superior to Berlese funnel technique for collecting engorged ticks

Ecology

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Dermatobia hominis, occurrence in dry deciduous forest lowland of Costa Rica

Ecology

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helminths of vertebrates of tundra zones, biological peculiarities related to habitat, review

Ecology

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Ecology

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ixodid ticks, distribution study, importance of habitat profiles and detailed distribution map for planning control measures: Baikal-Amur main line

Ecology

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Ecology

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Diplectanum aequans, *D. laubieri*, simultaneous parasites on *Dicentrarchus labrax* (gills), preferential microbiotopes for each species: mer ou dans les etangs cotiers du littoral languedocien

Ecology

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Ecology

- Lim, B. L., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (1), 122-130
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Ecology

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Nematospiroides dubius, response to deep space environment of Apollo 16 manned spaceflight, reduced hatching rate of eggs, unchanged infectivity to mice

Ecology

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Ecology

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Ecology

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Microsporidia of simuliids, review including some unpublished work: taxonomy; cytochemistry; ultrastructure; pathology (influence on larval development, size, and respiration; cytopathology); ecology

Ecology

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Ecology

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Ecology

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Ecology

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Ecology

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Ecology

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Ecology

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 trombiculid mites, seasonal fluctuations of larvae, difference of modes for attachment to rodents, incidence and number of species vary with vegetation types

Ecology

- Nihei, N., 1971, *Nettai (Tropics)*, v. 5 (4), 234-241
Schistosoma japonicum in humans, relationship of topography to infection spread; increased number of irrigation canals and rice cultivation requires improved control measures: Leyte, the Philippines

Ecology

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 3 ecologic approaches to study of protozoan parasitism: studies of energy flow between parasite and host; systems analysis; studies of nutrition through analysis of parasite's environment (Past President's address, Soc. Protozool.)

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Haemaphysalis silacea, ecology: habitat preferences, distribution in relation to microclimatic conditions, seasonal activity, seasonal occurrence on hosts, sex ratio of ticks, host/tick interactions as result of host daily movements and feeding habits, site of attachment: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa
- Ecology
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- Ecology
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- Ecology
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- Ecology
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helminths of frogs, comparison of aquatic and terrestrial hosts, relation of parasite fauna to environment, food supplies and food habits, host life cycle, temperature, rainfall, season, age and sex of host, competition between species of parasite, localization within host: Kampinos National Park, Poland
- Ecology
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- Ecology
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Microphallidae, Lepocreadiidae, and Echinostomatidae in Nassarius reticulatus (digestive gland, gonad), pathology, increased infection with host size, ecological changes: Kvarnbukten Bay, Gullmar Fjord (Sweden)
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- Ecology
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- Ecology
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- Ecology
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Ecology

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Ecology, Populations

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Ecology, Populations

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Ecology, Populations

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Ecology, Populations

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Ecology, Populations

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Ecology, Populations

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Ecology, Populations

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- Ecology, Populations
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Nephelopsis obscura, life history, growth and age structure related to seasonal changes, seasonal population movements from deep-water zone to shore zone; no direct correlation between cocoon production and water temperature: Newsome Pond and Jail Pond, Alberta, Canada
- Ecology, Populations
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- Ecology, Populations
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- Ecology, Populations
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- Ecology, Populations
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Proteocephalus ambloplitis, population biology in *Micropterus salmoides*, seasonal incidence of adults vs. larvae, postulated that decline in water temperature in southern latitudes and increase in water temperature in northern latitudes initiates migration of plerocercoids from parenteric to enteric sites where maturation to adult form ensues: reservoir heated by thermal effluents, ERDA Savannah River Plant near Aiken, South Carolina
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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Economic importance of parasitism

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Leptorhynchoides thecatus eggs, external fibrillar band, structure, function (to increase intimacy of association between eggs and filamentous algae, eggs associated with algae are more likely to produce infections in intermediate host (Hyalella azteca) than eggs not so associated)
- Eggs
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Boophilus microplus, mean weight of eggs, light and day of oviposition had no effect, high temperature increased weight
- Eggs
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hybridization of schistosomes (history, reciprocity of interspecific pairings, egg morphology of hybrids, intermediate and definitive host infectivity of hybrids, behavior of hybrid cercariae, isoenzymes of hybrids), review with results of recent work on Schistosoma haematobium X S. intercalatum, practical implications, symposium presentation
- Eggs
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- Egypt
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- Electricity
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ascarid eggs, attempted delhelmintization of liquids by electrohydraulic effect
- Electron microscopic morphology. See Morphology.
- Electron microscopic technique. See Technique, Electron microscopic.

- Electrophoresis**
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- Electrophoresis**
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trypanosome identification by electrophoresis of soluble enzymes
- Electrophoresis**
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- Electrophoresis**
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Diphyllbothrium, 4 species all raised in same experimental final host (Mesocricetus auratus), protein profiles from isoelectric focusing, chemotaxonomic methods possibly useful for identification and distinction of species
- Electrophoresis**
Dooris, P. M.; and McGhee, R. B., 1976, *J. Protozool.*, v. 23 (3), 433-437
Crithidia hamosa, C. fasciculata, differentiation by immunological methods (agglutination, indirect fluorescent antibody) and by polyacrylamide gel slab electrophoresis (number and relative mobilities of component protein bands)
- Electrophoresis**
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Leishmania donovani strains, characterization by disc electrophoresis, patterns of general protein staining, unspecific esterase, alkaline and acid phosphatases, species-specific fractions which may be instrumental in identification
- Electrophoresis**
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Leishmania tropica strains, electrophoretic patterns for proteins and enzymes which made characterization of strains possible, taxon-specific esterase bands which could be used in differentiating from L. donovani
- Electrophoresis**
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microsporidan isolate previously considered to represent mixed infection of Nosema necatrix and Thelohania diazoma determined to be one species with spore dimorphism, electrophoretic protein profile of two spore types, temperature effects on ratio of mono- to octospores, recommended that name Nosema necatrix be retained for this isolate
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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trypanosome isolates, taxonomic differentiation by electrophoretic characterization of enzymes

- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Electrophoresis**
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- Elephantiasis.** [See also Lymphatic system]
- Elephantiasis**
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- Elephantiasis**
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- Elephantiasis**
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- Elephantiasis**
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- Elephantiasis**
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Embryology. [See also Development]

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physiological aspects of reproduction in nematodes, extensive review: range of reproductive phenomena; reproductive system; male and female gametes; physiology of fertilization; development; sex differentiation; nutrition and other factors in egg production; behavioural aspects of reproduction; reproductive phenomena and parasitism

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- Encephalitis**
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- Encephalitis**
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- Encephalitis**
Pavri, K. M.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 99-110
Toxocara canis in albino mice (exper.), marked synergistic effect in mixed viral infections, possible role of visceral larval migrans in creating "acute encephalopathy syndrome" in presence of simultaneous viral infections
- Encephalitis**
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- Encephalomyelitis**
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- Endocrines.** See Glands; Hormones.
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- Endocytosis**
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- Enteritis.** [See also Intestine]
- Enteritis**
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- Enteritis**
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development of theory of arthropod transmission of disease, extensive historical review
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- Enzymes.** [See also Biochemistry; Metabolism]
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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Histomonas meleagridis, turkeys (exper.), plasma glutamic oxalacetic transaminase level, correlation with number of liver lesions, sulfamide treatment reduced number of liver lesions and lowered plasma GOT levels, useful as indicator of course of disease and for screening potential histomonastats

Enzymes

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Enzymes

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Ostertagia circumcincta, sheep, repeated infections, food intake, total acid output of fundic pouches, pH of abomasal contents, plasma pepsinogen levels, effects reversed by thiabendazole treatment, secretory capacity of fundic pouches tested with pharmacologic agents and feeding

Enzymes

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Enzymes

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Enzymes

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Enzymes

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Setaria cervi, enzymes of glycolysis and PEP-succinate pathway

Enzymes

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Ascaris lumbricoides var. suis ovary, demonstration of glutamine-dependent carbamoyl-phosphate synthetase, catalytic and regulatory properties

Enzymes

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Plasmodium berghei, erythrocyte adenosine triphosphate levels in infected mice (exper.) compared with levels in normal mice, levels in infected mice found to be considerably higher

Enzymes

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Enzymes

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 nutrition in cestodes

Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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 three virgulate xiphidocercariae, hydrolytic enzymes and cercarial secretions, histochemistry, localization, role in penetration of arthropod (Litobranca recurvata) cuticle: Cheat River System, West Virginia

Enzymes

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 Crithidia fasciculata, purification and properties of soluble, NAD-linked α -glycerophosphate dehydrogenase, similar preliminary studies with Leptomonas

Enzymes

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 trypanosome identification by electrophoresis of soluble enzymes

Enzymes

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Enzymes

- Balbo, T.; et al., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 33-71
 Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology; blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)

Enzymes

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 Dirofilaria immitis, D. repens, Dipetalonema sp., microfilaria from dogs, staining for localization of acid phosphatase, detailed procedure, basis for diagnostic differentiation

Enzymes

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 nucleosidediphosphate kinase, occurrence and intracellular distribution in 6 parasitic helminths

Enzymes

- Barrett, J., 1976, Organ. Nematodes (Croll), 11-70
 energy metabolism in nematodes, extensive review

Enzymes

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 Fasciola hepatica, activation of succinic dehydrogenase, contrasted with fumarate reductase

Enzymes

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 Fasciola hepatica adults, presence of all enzymes of β -oxidation sequence, but inability to oxidize exogenous palmitate indicates β -oxidation pathway not functional, possible roles for enzymes in metabolism

Enzymes

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 Schistocephalus solidus plerocercoids, despite presence of all enzymes of β -oxidation this pathway is not functional

Enzymes

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 Acanthamoeba, susceptibility of cysts to microbial and enzymatic degradation in soil and in vitro

Enzymes

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Toxoplasma gondii endozoites, distribution of acid and alkaline phosphatases in parasite and host cells

Enzymes

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Enzymes

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Cooperia punctata and/or *Eimeria bovis*-infected calves, reduced alkaline phosphatase activities in intestinal mucosa

Enzymes

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Leishmania donovani, *L. brasiliensis*, pyruvate kinase, regulatory properties in relation to regulation of glycolysis, comparison with *Crithidia fasciculata*

Enzymes

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Leishmania donovani, *L. braziliensis*, phosphofructokinase probably does not play an important role in glycolysis

Enzymes

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Trichomonas gallinae, lactic dehydrogenase, characterization, some regulatory properties

Enzymes

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Trichomonas gallinae, lack of functioning tricarboxylic acid cycle, energy apparently obtained from anaerobic fermentation

Enzymes

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Taenia pisiformis in rabbits (exper.), growth and development of rostellar hooks, hook differentiation and size related to age of cysticerci, ability to resist effects of digestive enzymes in vitro, and ability to infect dogs, variability in hook sizes attributable to external influences suggests caution in use of hook lengths as taxonomic characters

Enzymes

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Enzymes

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Litomosoides carinii in cotton rats and fast-growing white rats fed a vitamin E deficient diet, plasma enzyme activity, size of worms

Enzymes

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Dermacentor andersoni, free amino acid pools during embryogenesis and in newly hatched larvae, glutamate-pyruvate transaminase and glutamate-oxalacetate transaminase activity

Enzymes

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Schistosoma mansoni, miracidium, distribution of peroxidase activity in mitochondria, no peroxidase activity observed in mitochondria of other life cycle stages, biological implications

Enzymes

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 digenetic trematodes, digestive tract, gastrodermis, cytochemistry, surface amplifications, physiology, autophagy, review

Enzymes

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Trypanosoma evansi, separation of some isoenzymes by electrophoresis

Enzymes

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Plasmodium berghei, aspartate transcarbamylase, characterization

Enzymes

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S[chistosoma] mansoni, schistosomicide drugs used as ligands to isolate target antigens by affinity chromatography, to characterize their enzyme functions and localization on the parasite, and to define their immunogenic capacity

Enzymes

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Trypanosoma cruzi, generation of hydrogen peroxide by epimastigotes and fractions, superoxide dismutase activity in epimastigote homogenates, possible application of findings to search for trypanocidal drugs

Enzymes

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Enzymes

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Ascaris spermatozoa, immunocytochemistry of surface changes during maturation, specific antigenic differences between inactive and active, mature cells, studies by unlabeled antibody enzyme method; possible relationship to sperm's ability to recognize and/or penetrate oolemma of oocyte

Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Entamoeba invadens, malic enzyme, purification, characterization, 3 isoenzymes

Enzymes

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Cochliomyia hominivorax, mass rearing program, inadvertent selection for rare allelic form of α -glycerol phosphate dehydrogenase (a flight muscle enzyme), relationship to loss of competitive ability of factory-reared screwworm flies when released into nature

Enzymes

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Enzymes

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Crithidia, presence of ornithine carbamoyltransferase in species harboring bacteria-like endosymbionts (*C. deanei*, *C. oncopelti*) enables these species to synthesize arginine from ornithine thereby conferring a nutritional advantage on the protozoan host

Enzymes

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Schistosoma mansoni, proteolytic enzymes secreted from preacetabular glands of cercariae, partial characterization

Enzymes

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Plasmodium berghei subsp., electrophoretic variation in glutamate dehydrogenase

Enzymes

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Enzymes

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Plasmodium spp., survey of electrophoretic forms of 4 enzymes, variation between species, subspecies, and strains

Enzymes

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Plasmodium falciparum, variations in electrophoretic forms of the enzymes glucose phosphate isomerase (GPI), lactate dehydrogenase (LDH) and 6-phosphogluconate dehydrogenase (6GPD) in isolates collected from various areas of Africa

Enzymes

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Trichinella spiralis, increased propulsive activity in parasitized rats with associated inflammatory changes and a significant reduction in disaccharidase levels in gut mucosa

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Castro, G. A.; Roy, S. A.; and Schanbacher, L. M., 1975, *J. Parasitol.*, v. 61 (6), 1053-1060
Trichinella spiralis, untreated worms or worms exposed to phytohemagglutinin or immune serum, in vitro effects of lamina propria cells from small intestine of immunized rats, deleterious effect of disrupted (but not intact) cells on juveniles and adults (but not larvae), vermucidal component not linked to peroxidase-H₂O₂-halide system
- Enzymes
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Trypanosoma cruzi, CO₂-fixing enzymes (ADP-linked phosphoenolpyruvate carboxykinase, NADP-linked malic enzyme)
- Enzymes
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- Enzymes
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- Enzymes
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Tritrichomonas foetus, malate dehydrogenases
- Enzymes
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- Enzymes
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Schistosoma mansoni, mice, effect of infection on hepatic drug-metabolizing capacity, implications for metabolism of antischistosomal drugs
- Enzymes
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- Enzymes
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differentiation of 11 types of circulating microfilariae in blood smears from 7 spp. of New World monkeys based on differences in histochemical localization of acid phosphatase: New England Regional Primate Research Center
- Enzymes
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Microcoelium lanceatum, guinea pigs (exper.), enzyme-histochemical changes in liver
- Enzymes
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Leishmania donovani grown in hamster peritoneal macrophages in vitro, multiplication within host cell phagolysosomes, survival mechanism of this intracellular parasite apparently based upon resistance to macrophage lysosomal enzymic digestion
- Enzymes
Chapman, C. R.; and Coles, G. C., 1977, *Parasitology*, v. 75 (2), xxi [Abstract]
Fasciola hepatica, hydrolytic enzymes possibly involved in digestion
- Enzymes
Chapman, H. D., 1977, *Parasitology*, v. 75 (2), xxvi [Abstract]
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- Enzymes
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Biomphalaria glabrata totally or partially resistant to Schistosoma mansoni, acid phosphatase demonstrated in isolated granulocytes and used as marker to determine that cells comprising capsule surrounding mother sporocysts are granulocytes, process of encapsulation involves two stages, host cellular responses do not occur in susceptible snails
- Enzymes
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lipase activity in hemolymph of Biomphalaria glabrata challenged with bacterial lipids
- Enzymes
Clarkson, A. B., jr., 1975, *J. Protozool.*, v. 22 (3), 21A-22A [Abstract]
Trypanosoma equiperdum, L-alpha-glycerophosphate oxidase activity in microbodies, 4 drugs known to alter microbody function and/or morphology in mammalian cells had no detectable effect on course of T. equiperdum parasitemia
- Enzymes
Dave, D.; Gutteridge, W. E.; and Richards, W. H. G., 1976, *Parasitology*, v. 73 (2), xvii [Abstract]
Plasmodium spp., conversion of dihydroorotate to orotate, activities were irreversible, required O₂, and were inhibited by CN⁻ and Antimycin A, no involvement of reduced pteridines or pyridine nucleotides detected, this area of metabolism may be important site for selective drug action

Enzymes

- Davies, E. E., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (4), 379-384
Plasmodium berghei nigeriensis sporogonic stages, acid phosphatase and beta-glucuronidase not detected within parasite itself but clearly seen within mosquito epithelial cells, aryl sulphatase detected within oocysts

Enzymes

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Plasmodium berghei nigeriensis, host and parasite enzymes, detection within sporogonic stages

Enzymes

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Entamoeba histolytica, plasmalemmal modifications in vivo

Enzymes

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Leishmania donovani, *L. braziliensis*, *L. tropica*, rapid identification by radiorespirometry

Enzymes

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Hymenolepis diminuta, activity of glycogen synthase as a function of development and with crowding

Enzymes

- Dendinger, J. E.; and Roberts, L. S., 1977, *Comp. Biochem. and Physiol.*, v. 58 (3B), 231-236
Hymenolepis diminuta, glycogen synthase, control of enzyme activity by glucose and glycogen

Enzymes

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Trypanosoma cruzi, growth inhibition by allopurinol, both purines and pyrimidines required for reversal, actual inhibitor is allopurinol ribotide (not free base) acting on orotidine 5'-phosphate decarboxylase

Enzymes

- Dewey, V. C.; and Kidder, G. W., 1977, *Canad. J. Biochem.*, v. 55 (1), 110-112
Crithidia fasciculata, inhibited growth with adenine analog, 4-aminopyrazolo(3,4-d)pyrimidine, adenine plus a pyrimidine (or a pyrimidine derivative) necessary for reversal of inhibition, adenine analog not inhibitory to enzymes of pyrimidine biosynthetic pathway; if not for its untoward effects in mammals, 4-APP might be suggested as possible therapeutic agent in trypanosomal infections

Enzymes

- Dharsana, R. S.; Fabiyi, J. P.; and Hutchinson, G. W., 1976, *Vet. Parasitol.*, v. 2 (4), 333-340
 mixed gastro-intestinal nematode infections, calves, effects on host intestinal enzymes

Enzymes

- Docampo, R.; et al., 1976, *Experientia*, v. 32 (8), 972-975
Trypanosoma cruzi epimastigotes, peroxidase activity localized in microbodies, electron microscopy

Enzymes

- Douch, P. G. C., 1976, *Xenobiotica*, v. 6 (7), 399-404
Moniezia expansa, azo- and nitro-reductases, substrate specificity, reaction products, effects of flavins and other inhibitors and of activators

Enzymes

- Douch, P. G. C., 1976, *Xenobiotica*, v. 6 (9), 531-536
Ascaris lumbricoides var *suum*, *Moniezia expansa*, azo- and nitro-reductase activities, absence of cytochromes P-450 and b_5 , possible new approach for development of antihelminthic drugs

Enzymes

- Douch, P. G. C.; and Gahagan, H. M., 1976, *Xenobiotica*, v. 6 (12), 769-773
Moniezia expansa, N-deacetylase activity, subcellular localization and some properties

Enzymes

- Douch, P. G. C.; and Gahagan, H. M., 1977, *Xenobiotica*, v. 7 (5), 301-307
Moniezia expansa, *Ascaris lumbricoides* var *suum*, reduction and/or hydrolysis of niclosamide and related compounds by intact helminths and by enzyme preparations from the helminths and from mouse and sheep liver homogenates, reduction of niclosamide inhibited by allopurinol, indicates that co-administration of niclosamide and allopurinol might improve efficacy of anthelmintic, hydrolysis of benzanilide and related compounds inhibited by anthelmintic organophosphates

Enzymes

- Douch, P. G. C.; and Gahagan, H. M., 1977, *Xenobiotica*, v. 7 (5), 309-314
Ascaris lumbricoides var *suum*, N-deacetylase, localization and some properties, inhibition by anthelmintic organophosphates indicates they have potential use as adjuvants for anthelmintics of other chemical classes

Enzymes

- Douglass, W. R.; and Haskin, H. H., 1976, *J. Invert. Path.*, v. 27 (3), 317-323
Minchinia nelsoni disease development in susceptible oysters, *Crassostrea virginica*, alterations in hemolymph protein, aspartate and alanine aminotransferases, and phosphohexose isomerase, host metabolic changes; possible humoral defense mechanisms

Enzymes

- Dragoni, G.; Locatelli, A.; and Simonic, T., 1972, *Parassitologia*, v. 14 (2-3), 309-310
Fasciola hepatica, adenyl cyclase activity, basal and fluoride-stimulated conditions, fluoride ion increases activity more than 200 times

Enzymes

- Dresden, M. H.; and Edlin, F. M., 1975, *J. Parasitol.*, v. 61 (3), 398-402
Schistosoma mansoni, cercariae, localization and quantitation of calcium in preacetabular glands, in vitro inhibition of protease activity by high levels of calcium, possible function in controlling protease activity in situ

Enzymes

- Dresden, M. H.; Lewis, J. C.; and Krisko, I., 1977, *J. Parasitol.*, v. 63 (5), 941-943
Schistosoma mansoni, proteolytic action of cercarial proteases against human skin and wool keratins and against non-collagenous protein components of bovine basement membrane proteins

Enzymes

- Droller, M. J.; and Remington, J. S., 1975, *Cellular Immunol.*, v. 19 (2), 349-355
Toxoplasma-infected mice, correlation between decrease in adenyl cyclase activity in lymphocytes and macrophages and resistance to tumor growth, data suggest that production of cyclic AMP by lymphocytes is inhibited with activation of certain cell-mediated immune functions

Enzymes

- Dwivedi, S. K.; and Gautam, O. P., 1977, *Indian J. Animal Sc.*, v. 47 (8), 455-457
Babesia bigemina, calves (exper.), glutamic oxalacetic transaminase and glutamic pyruvic transaminase serum levels

Enzymes

- Dwivedi, S. K.; Gautam, O. P.; and Verma, B. B., 1977, *Indian Vet. J.*, v. 54 (2), 108-110
Trypanosoma evansi, dogs (exper.), serum transaminase activities, insufficient changes for use as diagnostic tool

Enzymes

- Ebert, F., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 517-524
Leishmania donovani strains, characterization by disc electrophoresis, patterns of general protein staining, unspecific esterase, alkaline and acid phosphatases, species-specific fractions which may be instrumental in identification

Enzymes

- Ebert, F., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 49-53
Leishmania tropica strains, electrophoretic patterns for proteins and enzymes which made characterization of strains possible, taxon-specific esterase bands which could be used in differentiating from *L. donovani*

Enzymes

- Ebert, F., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 259-266
Leishmania spp. of the New World, comparative electrophoretic studies on proteins, esterases, relationships to *Leishmania donovani* and *L. tropica*, use of species-specific enzyme patterns in differentiating species and strains

Enzymes

- Edwards, C.; and Lloyd, D., 1977, *J. Gen. Microbiol.*, v. 100 (2), 339-346
Crithidia fasciculata, subcellular fractionation by differential and zonal centrifugation of digitonin-treated suspension; distribution of enzymes after fractionation; lysosomes and mitochondria separated

Enzymes

- El-Abdin, Y. Z.; et al., 1975, *Egypt. J. Vet. Sc.*, v. 12 (1), 31-43
 serum constituents and serum enzyme activities, normal and nematode infested *Camelus dromedarius*: Cairo abattoir

Enzymes

- El-Abdin, Y. Z.; Mossalam, I.; and Hamza, S. M., 1975, *Egypt. J. Vet. Sc.*, v. 12 (2), 143-152
Neoascaris vitulorum, buffalo calves, blood picture, biochemical blood constituents, enzyme activities, before and after treatment with Concurat

Enzymes

- El-On, J.; and Bradley, D. J., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 281-282 [Demonstration]
 cell lysates of splenocytes and peritoneal exudate cells from normal uninfected mice, analytical disc-electrophoresis and enzyme activity, comparison of animals susceptible vs. resistant to visceral leishmaniasis

Enzymes

- Enigk, K.; and Dey-Hazra, A., 1976, *Vet. Parasitol.*, v. 2 (2), 177-185
Eimeria necatrix, chickens, maltase and saccharase activity of intestinal mucosa during mild and severe infections

Enzymes

- Enigk, K.; Dey-Hazra, A.; and Eduardo, S. L., 1976, *J. Comp. Path.*, v. 86 (2), 243-250
Strongyloides ransomi, pathogenesis in pigs, activity of disaccharidases and dipeptidases of intestinal mucosa during mild and severe infections

Enzymes

- Enigk, K.; Feder, H.; and Dey-Hazra, A., 1976, *Zentralbl. Vet.-Med., Reihe B*, v. 23 (3), 255-264
Taenia hydatigena, pigs, sheep, normal and high mineral diets, mineral, enzyme, and fatty acid content of cysts and of host blood

Enzymes

- Enriquez, G. L.; Ebert, F.; and Muehlpfordt, H., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 323-332
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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

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Enzymes

- Krvavica, S.; Francetic, D.; and Zivkovic, D., 1976, Vet. Arhiv, Zagreb, v. 46 (9-10), 231-239
 nematodes, trematodes, cestodes, activity, distribution and cofactor dependence of malic enzymes, majority are located in mitochondria in all investigated parasites

Enzymes

- Kucera, M., 1976, Acta Entom. Bohemoslov., v. 73 (6), 367-372
 Nosema heterosporum-infected Barartheta brassicae larvae, host enzymes, purification by isoelectric focusing, Michaelis constants determined, host metabolism

Enzymes

- Kulda, J.; and Zavadova, H., 1975, J. Protozool., v. 22 (3), 65A-66A [Abstract]
 high neuraminidase activity in Tritrichomonas foetus and T. suis, none in T. vaginalis, possible pathogenetic significance in T. foetus

Enzymes

- Kumar, A.; and Rawat, J. S., 1976, Indian J. Animal Sc., v. 45 (3), 1975, 154-156
 Eimeria necatrix, E. acervulina, chickens (exper.), effect on serum enzymes, blood glucose and cholesterol

Enzymes

- Kyaw, A.; and Oo, M., 1976, Jap. J. Med. Sc. and Biol., v. 29 (2), 105-108
 increase in hepatic lysosomal enzyme levels in mice infected with Hymenolepis diminuta, effects on growth and metabolism

Enzymes

- Laemmler, G.; and Schuster, J., 1974, Tropenmed. u. Parasitol., v. 25 (1), 66-74
 Schistosoma mansoni in Mastomys natalensis, chemotherapy with SQ 18.506, pathophysiological investigations (serum sorbitol dehydrogenase activity, numbers of leukocytes and eosinophilic granulocytes)

Enzymes

- Langreth, S. G.; and Balber, A. E., 1975, J. Protozool., v. 22 (1), 40-53
 Trypanosoma brucei, long slender and short stumpy bloodstream forms, culture forms, use of ferritin to study uptake and intracellular movement of protein, and of acid phosphatase to localize digestive activity cytochemically

Enzymes

- Lanham, S. M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 270 [Abstract]
 trypanosomes, enzymatic identification of precipitating antigens

Enzymes

- Lanham, S. M.; and Scott, C. M., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 274 [Demonstration]
 importance of controls in electrophoretic zymograms as shown by pyruvate kinase and adenylate kinase of trypanosomes on thin-layer starch gel

Enzymes

- Le Bars, H.; and Banting, A. de L., 1976, Pathophysiol. Parasit. Infect., 75-82
 Fasciola hepatica, sheep, rabbits, pathophysiology (serum proteins, enzymes, urea, lipids), concluded that rabbit cannot be used as model for pathophysiological studies

Enzymes

- Le Riche, P. D.; and Sewell, M. M. H., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 327-328
 Taenia solium and T. saginata, species differentiation by enzyme electrophoresis, differential mobility of glucose phosphate isomerase

Enzymes

- Levy, M. G.; and Read, C. P., 1975, J. Parasitol., v. 61 (4), 648-656
 Schistosoma mansoni, nucleotide hydrolysis at tegumental surface, relation between tegumentary phosphohydrolases and purine and pyrimidine transport systems

Enzymes

- Levy, M. R.; Siddiqui, W. A.; and Chou, S. C., 1974, Nature (5442), v. 247, 546-549
 Plasmodium falciparum, P. knowlesi, acid protease activity in parasites and in ghosts of their respective host red cells, possible value of protease inhibitors in inhibiting growth of malarial parasites

Enzymes

- Lewis, D. H., 1975, J. Protozool., v. 22 (3), 53A [Abstract]
 Leishmania mexicana mexicana, in vitro studies on intracellular relationship with lysosomal system of normal vs. sensitized host macrophages

Enzymes

Lewis, D. H.; and Besso, A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 113-114 [Demonstration]

Leishmania m. mexicana, possible inactivation of host cell lysosomal enzyme activity within parasitophorous vacuoles by intracellular *Leishmania* in order to avoid digestion

Enzymes

Lewis, D. H.; and Peters, W., 1977, Ann. Trop. Med. and Parasitol., v. 71 (3), 295-312

Leishmania spp., promastigote forms, relationship between parasites and host macrophages and their relevance to intracellular survival of parasites, resistance of intracellular *Leishmania* to digestion by lysosomal enzymes

Enzymes

Lindmark, D. G.; and Mueller, M., 1974, J. Protozool., v. 21 (2), 374-378

Monocercomonas sp., oxidoreductases and hydrolases, activity, subcellular distribution, biochemical cytology very similar to the more highly evolved trichomonad *Tritrichomonas foetus*

Enzymes

Lindmark, D. G.; and Mueller, M., 1974, J. Protozool., v. 21 (3), 436 [Abstract]

affinity of metronidazole to reducing enzyme system(s) in *Trichomonas vaginalis* and *Tritrichomonas foetus* homogenates, inhibitory action of metronidazole on these enzymes due to competition for low redox potential electrons

Enzymes

Lindmark, D. G.; Mueller, M.; and Shio, H., 1975, J. Parasitol., v. 61 (3), 552-554

Trichomonas vaginalis, enzyme distribution after differential and isopycnic centrifugation demonstrates hydrogenosomal nature of microbodylike paracostal and paraxostylar granules

Enzymes

Lindsay, G. K.; and Burch, J. B., 1975, Malacol. Rev., v. 8 (1-2), 126-127

Schistosoma haematobium, *Bulinus* vector snails, esterase patterns, correlation with susceptibility to infections

Enzymes

Linstead, D. J.; Klein, R. A.; and Eldridge, M. V., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 267-268 [Abstract]

Trypanosoma mega, *T. brucei*, *Crithidia fasciculata*, presence of 3 enzymes capable of carbon dioxide fixation in culture as source of carbon for metabolism

Enzymes

Logan, J.; Ubelaker, J. E.; and Vrijenhoek, R. C., Comp. Biochem. and Physiol., v. 57 (1B), 51-53

Hymenolepis diminuta, two isozymes of L(+) lactate dehydrogenase demonstrated by starch-gel electrophoresis, LDH patterns exhibit tissue specificity and ontogenetic changes

Enzymes

Long, P. L.; Millard, B. J.; and Shirley, M. W., 1977, Parasitology, v. 75 (2), 177-182

Eimeria meleagridis from turkeys, oocyst measurements, sporulation and prepatent times, pathogenicity, cross-immunity tests, electrophoretic analysis of enzymes, documentation of strain variation shows that extreme caution should be used in identifying species of *Eimeria* from the turkey by their oocyst characters

Enzymes

Lukow, I.; et al., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 500-504

Plasmodium chabaudi, adenosine monophosphate salvage synthesis

Enzymes

Lumsden, R. D., 1975, Tr. Am. Micr. Soc., v. 94 (4), 501-507

Lacistorhynchus tenuis and *Hymenolepis diminuta*, tegument, model system for studies on membrane structure and function in host-parasite relationships

Enzymes

Lushbaugh, W. B.; Kairalla, A. B.; and Pittman, F. E., 1976, J. Protozool., v. 23 (2), 12A

[Abstract]
Entamoeba histolytica, phagocytosis, ingestive and digestive processes studied ultra-structurally

Enzymes

McCall, H., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 286 [Demonstration]

Rhipicephalus appendiculatus, stimulation of acid phosphatase activity in salivary glands from *Theileria parva* infected and non-infected unfed ticks, parasite maturation not induced

Enzymes

McCaul, T. F.; Poston, R. N.; and Bird, R. G., 1977, Exper. Parasitol., v. 43 (2), 342-352

Entamoeba histolytica and *E. invadens* trophozoites cause chromium release from labeled human liver cells in culture, phospholipase inhibitor suppresses chromium release, results support belief that toxin affecting membrane permeability is operative factor in pathogenesis of amoebiasis

Enzymes

McLaren, D. J., 1976, Organ. Nematodes (Croll), 139-161

nematodes, morphology of sense organ/secretory cell relationship (amphidial and phasmidial sense organs, papillae), mechanics of secretion, experimental evidence for secretion, review

Enzymes

McLaughlin, J.; and Faubert, G., 1976, J. Protozool., v. 23 (2), 21A [Abstract]

Entamoeba histolytica, proteinases, partial purification and characterization

Enzymes

McLaughlin, J.; and Faubert, G., 1977, Canad. J. Microbiol., v. 23 (4), 420-425

Entamoeba histolytica, neutral sulfhydryl and acid proteinases, partial purification and some properties

Enzymes

- McLaughlin, J.; Injeyan, H. S.; and Meerovitch, E., 1975, *J. Protozool.*, v. 22 (3), 21A [Abstract]
Crithidia sp., subcellular heterogeneity of acid phosphohydrolase activities

Enzymes

- Mahrt, J. L.; and Fayer, R., 1975, *J. Parasitol.*, v. 61 (5), 967-969
Sarcocystis fusiformis, calves (exper.), acute phase of infection, hematologic and serum enzyme changes: oligocythemic anemia, leukocytic shift to the left, elevation of serum SGOT, LDH, and CPK levels

Enzymes

- Manaia, A. da C.; and Roitman, I., 1977, *J. Protozool.*, v. 24 (1), 192-195
Crithidia fasciculata grown in presence of ethidium bromide, dyskinetoplasty and growth inhibition, changes in oxidative metabolism and enzyme profiles

Enzymes

- Manohar, L.; and Rao, P. V., 1977, *Indian J. Exper. Biol.*, v. 15 (4), 264-267
Prosthogonimus sp.-infected *Lymnaea luteola*, gluconeogenic precursor levels and related enzyme activity profiles, alterations in host metabolism aimed at meeting demands of parasite

Enzymes

- Marincek, M.; and Miljkovic, G., 1972, *Acta Parasitol. Iugoslavica*, v. 3 (2), 79-88
Eimeria subepithelialis, cytochemical localization of alkaline phosphatase in various life-cycle stages

Enzymes

- Martin, E.; et al., 1976, *J. Protozool.*, v. 23 (4), 600-607
Leishmania, 4 human spp. compared, promastigotes, occurrence and levels of activity of various enzymes of carbohydrate catabolism

Enzymes

- Martin Vazquez, A., 1975, *An. Inst. Invest. Vet.*, Madrid, v. 23, 1974-1975, 169-178
Eimeria acervulina, chickens, changes of level of plasmatic ureo-stable alkaline phosphatase

Enzymes

- Mattei, D. M.; et al., 1977, *FEBS Letters*, v. 74 (2), 264-268
Trypanosoma cruzi, biochemical strain characterization by restriction endonuclease cleavage of kinetoplast-DNA, comparison to *Herpetomonas samuelpessoai*, possible application in kinetoplastid taxonomy

Enzymes

- Matthews, B. E., 1977, *Parasitology*, v. 75 (2), xii-xiii [Abstract]
Anisakis sp. larvae produce secretions which contain one fraction with enzymic activity, this proteolytic activity along with body movements may account for mechanism of migration

Enzymes

- Mattock, N. M., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (3), 345-348
Leishmania mexicana mexicana and *L. donovani* amastigote forms grown in cell culture, failure to detect lactate dehydrogenase and malate dehydrogenase, presence of glucose-6-phosphate dehydrogenase indicated

Enzymes

- Mazhuga, N. A., 1975, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 25, 98-101
Ascaris suum, proteolytic enzymes, optimal pH; action against synthetic substrate; activity distinct from that of trypsin of host

Enzymes

- Mead, R. W., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 183-188
Hymenolepis diminuta, distribution of amylase activity within infected and uninfected rat intestine using starch substrate film method, no difference in relative amylase activity, results indicated that differences in starch digestion between infected and uninfected rats were not due to changes in distribution of intraluminal amylase along the small intestine

Enzymes

- Meingassner, J. G.; et al., 1977, *Ztschr. Parasitenk.*, v. 51 (3), 219-228
Toxoplasma gondii cysts from mouse brains, histochemistry of carbohydrate metabolism

Enzymes

- Mercado, T. I., 1976, *Exper. Parasitol.*, v. 40 (3), 411-420
Trypanosoma cruzi, 3 strains compared in mice, activity of various lactate dehydrogenase isoenzymes in relation to localization of histopathology

Enzymes

- Michalek, A.; and Vodrazka, J., 1977, *Veterinaria, Praha*, v. 19 (1-2), 13-27
fascioliasis, lactic dehydrogenase isoenzyme activity in blood of sheep after administration of fasciolicides to measure effect on liver

Enzymes

- Miles, M. A.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (3), 217-225
culture forms of 17 *Trypanosoma cruzi* stocks differentiated by means of electrophoretic patterns of 6 enzymes into 2 distinct strain-groups (one derived from human and domiciliated animals and the other from sylvatic stock and triatome species); evidence that the 2 strain-groups' transmission cycles do not overlap and are of different origins: Brazil

Enzymes

- Miller, P. G. G.; Linstead, D. J.; and Klein, R. A., 1976, *Parasitology*, v. 73 (2), xvi [Abstract]
5 spp. of trypanosomatids, enzymes of acetyl CoA metabolism, possible routes for synthesis and utilization of acetyl CoA

Enzymes

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Poecilobdella granulosa, localization of acetylcholinesterase and butyrylcholinesterase in salivary glands; roles of these and other enzymes in biting

Enzymes

- Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 48 (1), 35-45
Dicrocoelium dendriticum miracidia, hatching with formic acid, caproic acid and intestinal juice of *Helix pomatia*, absence of O₂, presence of bacteria; indirect dependence on pH; permeabilities and osmotic pressure; hypothesis of hatching mechanism: granular gland activation releases enzyme, polysaccharide digested to oligosaccharide, rising osmotic pressure bursts operculum

Enzymes

- Moczon, T., 1976, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (4), 227-231
Fasciola hepatica miracidia, pesticides blocking activities of oxidoreductases, pesticide concentrations much lower than those used in field conditions for insect control

Enzymes

- Momen, H., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 438-439 [Demonstration]
Babesia spp., enzyme variations as significant aid to taxonomic study

Enzymes

- Momen, H., 1976, Parasitology, v. 73 (2), xvi [Abstract]
Plasmodium spp., *Babesia* spp., *Anthemosoma garnhami*, carbohydrate metabolism: enzyme activity, glucose catabolism

Enzymes

- Moon, T. W.; et al., 1977, J. Exper. Zool., v. 200 (3), 325-336
Hymenolepis diminuta, properties of pyruvate kinase and phosphoenol-pyruvate carboxykinase (the two enzymes that determine preferential accumulation of either succinate or lactate as end products of carbohydrate metabolism)

Enzymes

- Moon, T. W.; et al., 1977, Comp. Biochem. and Physiol., v. 56 (3B), 249-254
Hymenolepis diminuta, lactate dehydrogenase and malate dehydrogenase activity, controlled by substrate availability and to limited extent pH

Enzymes

- Moore, M. N.; and Halton, D. W., 1975, Ztschr. Parasitenk., v. 47 (1), 45-54
Fasciola hepatica, rediae, cercariae, histochemistry with particular emphasis on enzymes, localization in tegument and caecum suggests probable absorptive and digestive functions

Enzymes

- Moore, M. N.; and Halton, D. W., 1976, Exper. Parasitol., v. 40 (2), 212-224
Fasciola hepatica, enzyme histochemistry in juvenile vs. adult flukes and in infected mouse liver (cytopathological changes), effects of exper. starvation of flukes on levels of staining and distribution of hydrolytic enzymes

Enzymes

- Moorhouse, D. E., 1975, Ztschr. Parasitenk., v. 48 (1), 65-71
Argas persicus, larvae, feeding on chickens, histological studies, penetration by lysis, foreign body reaction, whole blood as diet throughout feeding, emigration of heterophils to surround mouthparts and mask them against foreign body reaction, example of adaptation tolerance; immunological response to salivary secretions not suppressed

Enzymes

- Motomura, I., 1967, Nettai Igaku (Trop. Med.), v. 9 (4), 226-243
Toxoplasma gondii, cysts and proliferative forms, in vitro survival in different concentrations of disinfectants or on incubation with digestive enzymes or bovine bile

Enzymes

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Ascaris lumbricoides var. *hominis*, purification and protein properties of trypsin inhibitor located in muscular and cuticular layers of parasite, speculations on immunologic role

Enzymes

- Mukerji, K.; et al., 1977, Indian J. Med. Research, v. 66 (5), 745-755
Ascaris lumbricoides var. *hominis*, purification of parasite chymotrypsin inhibitor and properties of partially purified chymotrypsin and trypsin inhibitors

Enzymes

- Mukkada, A. J.; et al., 1974, J. Protozool., v. 21 (2), 393-397
Leishmania tropica, role of exogenous glucose in growth media, delayed utilization

Enzymes

- Nauriyal, D. C.; and Rai, P., 1976, Agra Univ. J. Research, v. 23 (3), 1974, 75-84
Ascaridia galli, immature stages, chickens (exper.), serum enzymes (alkaline and acid phosphatase, cholinesterase) and gamma globulin levels, histochemical changes, diagnostic value, results indicate significant rise of serum alkaline phosphatase and parallel histochemical changes; acid phosphatase, cholinesterase, and gamma globulin not useful in diagnosis

Enzymes

- Nizami, W. A.; Siddiqi, A. H.; and Yusufi, A. H. K., 1975, *J. Helminth.*, v. 49 (4), 281-287
 comparison of alkaline phosphatase systems in 8 species of digenetic trematodes from different hosts and/or habitats, enzyme activity, pH and temperature optima, effect of chemicals

Enzymes

- Nolan, J.; and Schnitzerling, H. J., 1976, *Pesticide Biochem. and Physiol.*, v. 6 (2), 142-147
Boophilus microplus, acaricide-resistant vs. -susceptible strains, substrate specificity and catalytic efficiency of critical acetylcholinesterase component.

Enzymes

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Wuchereria bancrofti, *Brugia malayi*, *B. pahangi*, *Dirofilaria immitis*, distribution of acid phosphatase activity in larval stages in the mosquito, presence or absence of enzymic activity in the excretory cell complex and amphids of developing larvae useful as adjunctive diagnostic method

Enzymes

- Opperdoes, F. R., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 315 [Abstract]
Trypanosoma brucei, glycerol-3-phosphate oxidase located in mitochondria and not in microbodies

Enzymes

- Opperdoes, F. R.; et al., 1977, *European J. Biochem.*, v. 76 (1), 29-39
Trypanosoma brucei bloodstream form, sub-cellular fractionation, localization of glycerol-3-phosphate oxidase in mitochondrion and particulate NAD⁺-linked glycerol-3-phosphate dehydrogenase in microbodies, supplementary studies with *Crithidia luciliae*

Enzymes

- Opperdoes, F. R.; and Borst, P., 1977, *FEBS Letters*, v. 80 (2), 360-364
Trypanosoma brucei, localization of 9 glycolytic enzymes in microbody-like organelle (the glycosome)

Enzymes

- Opperdoes, F. R.; Borst, P.; and Spits, H., 1977, *European J. Biochem.*, v. 76 (1), 21-28
Trypanosoma brucei bloodstream form, screening for presence of enzymes that could be used as specific organelle markers in cell fractionation studies

Enzymes

- Opperdoes, F. R.; de Rijke, D.; and Borst, P., 1976, *Comp. Biochem. and Physiol.*, v. 54 (1B), 7-12
Crithidia luciliae, characterization of mitochondrial adenine nucleotide translocator and ATPase, significant differences between ATPase of trypanosomes and their hosts that could potentially be exploited in chemotherapy

Enzymes

- Osikovski, E.; Koenigk, E.; and Schmidt, G., 1972, *Izvest. Tsentral. Khelmin. Lab.*, v. 15, 159-166
Ascaris suum, tRNA methylase, characterization

Enzymes

- Ottolenghi, A.; et al., 1977, *Infect. and Immun.*, v. 15 (1), 13-18
Angiostrongylus cantonensis, nonsensitized and sensitized rats after challenge, phospholipase B activity in lungs and brains, eosinophilia in bone marrow, results support hypothesis that inflammation, elevated phospholipase B activity, and reduction in worm burden are causally related

Enzymes

- Ottolenghi, A.; and Rowland, J. T., 1975, *J. Pharmacol. and Exper. Therap.*, v. 194 (2), 463-468
Hymenolepis nana, mice, phospholipase B activity of small intestine as laboratory test for presence of parasites and for evaluating effectiveness of treatment, confirmation of some features of niclosamide action (relative refractoriness of early parasitic forms, enhanced effect of multiple doses)

Enzymes

- Owen, J. S.; et al., 1977, *Biochem. Soc. Tr.*, v. 5 (5), 1346-1348 [Abstract]
Schistosoma mansoni, mice, plasma and erythrocyte lipids, plasma phosphatidylcholine-cholesterol acyltransferase activity, differences compared to human schistosomiasis suggest mouse is not suitable as experimental model

Enzymes

- Page, C. R. III; and Newport, G. R., 1977, *Comp. Biochem. and Physiol.*, v. 57 (3B), 243-247
Schistosoma mansoni-infected mice, arginase and ornithine carbamoyltransferase activity in serum and liver

Enzymes

- Palmer, F. B. St. C., 1976, *Biochim. et Biophys. Acta*, v. 441 (3), 477-487
Crithidia fasciculata homogenates contain a phosphatase and a phosphodiesterase which hydrolyse triphosphoinositides

Enzymes

- Palmer, F. B. St. C., 1976, *Canad. Fed. Biol. Soc., Programme and Proc. 19. Ann. Meet.*, v. 19, 32 [Abstract]
Crithidia fasciculata, hydrolysis of triphosphoinositide (TPI) by TPI phosphatase and TPI phosphodiesterase

Enzymes

- Pandey, V. C.; Dutta, G. P.; and Rao, V. K. M., 1976, *Indian J. Exper. Biol.*, v. 14 (2), 142-144
Entamoeba histolytica-infected rat caeca, significant increase in RNase and DNase activity, enzyme level reduced almost to normal values by treatment with emetine hydrochloride, enterovioform, or metronidazole

Enzymes

- Parker, R. D., jr.; and MacInnis, A. J., 1977, *Exper. Parasitol.*, v. 41 (1), 2-16
Hymenolepis diminuta, cell-free system for protein synthesis, isolation and purification and reconstruction in vitro; puromycin inhibition of protein synthesis in this system indicated its potential use in investigating anthelmintic action

Enzymes

- Parker, S.; and Croll, N. A., 1976, *Exper. Parasitol.*, v. 40 (1), 80-85
Dictyocaulus viviparus, pepsin did cause exsheathment but was not an absolute requirement, exsheathment occurred in other proteases and in chitinase at appropriate pH optima, concluded that exsheathment in vivo is caused by host gut enzymes

Enzymes

- Parr, C. W.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 147 [Abstract]
 trypanosome isolates, taxonomic differentiation by electrophoretic characterization of enzymes

Enzymes

- Patil, H. S.; and Rodgi, S. S., 1976, *Current Sc., Bangalore*, v. 45 (17), 625-626 [Letter]
Paramphistomum cervi, histochemical localization of non-specific esterase activity, caecum more active than cuticle, probably more involved in absorption and transfer of metabolites

Enzymes

- Patil, H. S.; and Rodgi, S. S., 1976, *Proc. Indian Acad. Sc., Sect. B*, v. 84 (2), 37-41
Paramphistomum cervi, histochemical localization and distribution of α -glycerophosphate, lactate, glucose-6-phosphate and 6-phosphogluconate dehydrogenases, results suggest existence of both Embden-Meyerhof and pentose-phosphate pathways for carbohydrate metabolism

Enzymes

- Pavlov, A. V.; and Koshkina, L. A., 1975, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 25, 106-109
 ascarids, chicks, increased ATP-ase and sodium and chloride ions in body fluid of worms from hosts vaccinated before infection, possible relationships to cuticle permeability and transport system

Enzymes

- Perkatova, V. N., 1975, *Dokl. Vsesoiuz. Akad. Sel'skokhoz. Nauk* (10), 39-40
Gastrothylax crumenifer, morphology and physiology of tegument, intestine and saccus alimentarius, localization of non-specific esterase; adaptations to existence among dense papillae of rumen and glandular structure thereof

Enzymes

- Peters, W.; et al., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (4), 501-502
Leishmania aethiopia, *Leishmania adleri*, *Leishmania sp.*, enzyme variants, DNA buoyant densities and excreted factor serotypes as means of differentiation of human and animal isolates from Kenya

Enzymes

- Pettigrew, G. W.; and Smith, G. M., 1977, *Nature, London* (5595), v. 265, 661-662
Crithidia oncopelti, cytochrome c557, novel N-terminal protein blocking group identified as dimethylproline

Enzymes

- Phares, C. K.; Hofert, J. F.; and Pettinger, C. L., 1976, *Gen. and Comp. Endocrinol.*, v. 28 (1), 103-106
Spirometra mansonoides, hypophysectomized-plerocercoid-infected rats, growth stimulation of lymphatic tissue: in vitro incorporation of ^3H -labeled nucleosides into DNA and RNA of isolated thymocytes; spleen thymidine kinase activity

Enzymes

- Picard-Maureau, A.; et al., 1975, *Tropenmed. u. Parasitol.*, v. 26 (4), 405-416
Plasmodium vinckei-infected mouse erythrocytes, protein content, glutathione concentration, enzyme activity, correlation with stage of parasite development, significance of results for metabolism of malaria parasites and for possible adaptation to mosquito

Enzymes

- Platzer, E. G., 1974, *J. Protozool.*, v. 21 (2), 400-405
Plasmodium lophurae, dihydrofolate reductase in parasite and in duckling erythrocytes, temporal changes in activity, isolation, properties, sensitivity to pyrimethamine inhibition

Enzymes

- Platzer, E. G., 1977, *Life Sc.*, v. 20 (8), 1417-1423
Plasmodium lophurae, subcellular distribution of serine hydroxymethyltransferase, cytochrome oxidase, glutamate dehydrogenase, and malate dehydrogenase

Enzymes

- Platzer, E. G.; and Campuzano, H. C., 1976, *J. Protozool.*, v. 23 (2), 282-286
Plasmodium lophurae, serine hydroxymethyltransferase, partial purification and characterization

Enzymes

- Poliakova-Krusteva, O., 1972, *Izvest. Tsentral. Khel'mint. Lab.*, v. 15, 175-180
Fasciola hepatica-infected mice (exper.), adenosine triphosphatase activity in liver

Enzymes

Poliakova-Krusteva, O.; and Gorchilova, L., 1972, *Izvest. Tsentral. Khelmit. Lab.*, v. 15, 181-188

Fasciola hepatica, pigs (exper.), liver pathology, histology, enzyme histochemical changes, significant differences in comparison with other hosts

Enzymes

Poliakova-Krusteva, O.; and Krustev, L., 1972, *Izvest. Tsentral. Khelmit. Lab.*, v. 15, 189-198

Fasciola hepatica, rabbits (exper.), liver pathology, enzyme histochemistry

Enzymes

Poston, R. N.; McCaul, T. F.; and Bird, R. G., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 112-113 [Demonstration]

Entamoeba histolytica, *E. invadens*, cytotoxic activity on labelled Chang cells, results indicate that amebic agent indirectly affects host cell membrane permeability by altering cell membrane architecture and strongly suggest that phospholipid alteration by phospholipase may be basis of loss of membrane integrity

Enzymes

Prichard, R. K., 1976, *Internat. J. Parasitol.*, v. 6 (3), 227-233

Fasciola hepatica, adults, regulation of pyruvate kinase and phosphoenolpyruvate carboxykinase activity

Enzymes

Probert, A. J.; and Durrani, M. S., 1977, *Exper. Parasitol.*, v. 42 (1), 203-210

Fasciola hepatica from cattle, *Fasciola gigantica* from sheep, cattle, goats, and buffaloes, total cholinesterase, kinetic and electrophoretic properties, effects of specific inhibitors, histochemical distribution in worm

Enzymes

Probert, A. J.; and Lwin, T., 1976, *Exper. Parasitol.*, v. 40 (2), 206-211

Fasciola hepatica, acid phosphatases from microsomal, lysosomal, and soluble fractions compared, biochemical and electrophoretic properties, particle-associated acid phosphatases appear identical but different from soluble acid phosphatase

Enzymes

Probert, A. J.; and Lwin, T., 1977, *Exper. Parasitol.*, v. 41 (1), 89-94

Fasciola hepatica, malate dehydrogenase, subcellular distribution, kinetic and electrophoretic properties

Enzymes

Rabinowitz, H.; and Spira, D. T., 1973, *J. Protozool.*, v. 20 (4), 533

Leishmania tropica-infected macrophages, suppression of phagocytic activity, increased stimulation of lysosomal activity, increased acid phosphatase activity

Enzymes

Ramisz, A.; and Komorowski, A., 1975, *Polskie Arch. Wet.*, v. 17 (4), 623-631

Trichinella spiralis, muscle phase in mice, fenchlorphos and bromophos, inhibition of host cholinesterase activity in motor end plates; increased activity of cholinergic system as main factor in pathogenesis

Enzymes

Ramisz, A.; and Szankowska, Z., 1970, *Acta Parasitol. Polon.*, v. 17 (20-38), 217-223

Fasciola hepatica, *Dicrocoelium dendriticum*, nervous system, distribution of active acetylcholinesterase, also demonstrated in reproductive system

Enzymes

Ramisz, A.; and Szankowska, Z., 1976, *Folia Histochem. et Cytochem.*, v. 14 (4), 321-326

Trichinella spiralis, mice, administration of paraoxon under the protection of toxobidin (an acetylcholinesterase reactivator), effect on cholinesterases in host skeletal muscles

Enzymes

Redington, B. C.; et al., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (4), 489-492

Brugia pahangi, sub-periodic *B. malayi*, microfilariae, differentiation on basis of specific distribution of acid phosphatase activity, superior to previously used morphologic and biologic methods for differentiating these 2 microfilarial spp.

Enzymes

Reeves, R. E.; et al., 1977, *J. Biol. Chem.*, v. 252 (2), 726-731

Entamoeba histolytica, energy-conserving pyruvate-to-acetate pathway, pyruvate synthase and a new acetate thiokinase

Enzymes

Reeves, R. E.; Serrano, R.; and South, D. J., 1976, *J. Biol. Chem.*, v. 251 (10), 2958-2962

Entamoeba histolytica, 6-phosphofructokinase, physical properties, divalent cation requirement, mechanism of reaction it catalyzes

Enzymes

Reid, V. E.; and Friedkin, M., 1973, *Molec. Pharm.*, v. 9 (1), 74-80

Plasmodium berghei-infected mouse erythrocytes, increase of thymidylate synthetase, kinetic and physical properties, suggests possible target for chemotherapeutic attack

Enzymes

Reissenweber, N. J.; et al., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 25-33

Echinococcus granulosus, hydatid cysts from human lungs, scolices and brood capsules, histochemistry and histoenzymology, enzymes, lipids, glycogen, RNA, metabolic pathways, various types of cells in brood capsules

Enzymes

Reynolds, C. H.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 429-430 [Letter]

Trypanosoma vivax, cattle, concluded that there is no evidence for changes in activity of liver-specific enzymes in serum during non-lethal infection provided that steps are taken to minimize the effect of pyruvate in the enzyme assays

Enzymes

Risby, E. L., 1976, J. Protozool., v. 23 (2), 20A [Abstract]

Crithidia fasciculata, *Blastocrithidia culicis*, *Trypanosoma*, phosphohexose isomerase, comparison of characteristics

Enzymes

Robinson, J. M.; and Bogitsh, B. J., 1976, J. Parasitol., v. 62 (5), 761-765

Hymenolepis diminuta, presence of mitochondrial peroxidase, also enzyme cytochemically similar to vertebrate cytochrome c-oxidase

Enzymes

Rodgi, S. S.; Patil, H. S.; and Amoji, S. D., 1976, Indian J. Exper. Biol., v. 14 (4), 505-506

Paramphistomum cervi, alkaline phosphatase, histochemical localization, strong reaction in body wall and caecum and egg-containing uterus, weak to moderate activity in other body organs

Enzymes

Rogers, S. H., 1976, Exper. Parasitol., v. 40 (3), 397-405

Schistosomium douthitti, adults, carbohydrate metabolism, glycolysis is major mechanism for energy production but at least two aerobic pathways exist

Enzymes

Rogers, W. P.; and Brooks, F., 1976, Internat. J. Parasitol., v. 6 (4), 315-319

Haemonchus contortus, suggested that exsheathing fluid contains a zinc metallo-enzyme (probably leucine aminopeptidase) which is involved in process of exsheathment

Enzymes

Rogers, W. P.; and Brooks, F., 1977, Internat. J. Parasitol., v. 7 (1), 61-65

Haemonchus contortus, egg hatching, presence of leucine aminopeptidase and lipase in hatching fluid, inhibition of hatching by 1,10-phenanthroline reversed by Zn^{2+}

Enzymes

Rogerson, G. W.; and Gutteridge, W. E., 1976, Parasitology, v. 73 (2), xv [Abstract]

Trypanosoma cruzi, culture epimastigotes, blood trypomastigotes, intracellular amastigote stages, enzymes of energy metabolism, results suggest presence of functional tricarboxylic acid cycle in all stages

Enzymes

Rogerson, G. W.; and Gutteridge, W. E., 1977, J. Protozool., v. 24 (4), 42A [Abstract]

Trypanosoma cruzi, culture epimastigotes, blood trypomastigotes, and intracellular amastigotes, cytochromes aa-, o, and b identified in all 3 forms, cytochrome c observed in culture forms

Enzymes

Rollinson, D., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 436-437 [Demonstration]

Eimeria spp., attempted differentiation of chicken coccidia by electrophoretic variation of enzymes

Enzymes

Rollinson, D., 1976, Parasitology, v. 73 (2), iv [Abstract]

Eimeria mivati, *E. acervulina*, electrophoretic forms of enzymes, high frequency of interspecific variation, crosses produce strains characterized by glucose phosphate isomerase-2 (characteristic of *E. acervulina*) and ability to passage in eggs (*E. mivati*), results support Long's view that *E. mivati* Houghton isolate belongs to species *E. acervulina*

Enzymes

Rollinson, D., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 21-22 [Demonstration]

Eimeria spp. of mammals, electrophoretic techniques to differentiate spp. by variations in mobility of enzymes

Enzymes

Romanowski, R. D.; et al., 1975, J. Parasitol., v. 61 (4), 777-778

Haemonchus contortus, cambendazole-resistant vs. -sensitive strains, effect on fumarate reductase of cambendazole, thiabendazole, and levamisole

Enzymes

Romestand, B.; and Trilles, J. P., 1976, Ztschr. Parasitenk., v. 50 (1), 87-92

Meinertia oestroides, anticlotting factor in cephalothoracic latero-oesophageal glands, action and chemical nature studied, antithrombinic factor similar to heparin; enzymatic activities of latero-oesophageal glands and hepatopancreas

Enzymes

Rose, N. R.; Milisaukas, V.; and Zeff, G., 1975, Immunol. Commun., v. 4 (1), 1-16

antigenic and enzymatic changes in infected (including by *Toxoplasma gondii*) and transformed human diploid cells

Enzymes

Ross, G. C., 1976, Comp. Biochem. and Physiol., v. 55 (3B), 343-346

Schistosoma spp., isoenzymes, lactate dehydrogenase, malate dehydrogenase, acid phosphatase, isoelectric focusing in polyacrylamide gel, possible applications in taxonomy and diagnosis, factors considered in assessing results (include age and sex of parasite, host relationships, etc.)

Enzymes

- Rothwell, T. L. W.; et al., 1976, *Vet. Parasitol.*, v. 1 (3), 221-230
14 common gastrointestinal nematodes, incidence and specificity of anti-acetylcholinesterase antibodies in infected hosts, results show that anti-AChE antibody production occurs in infections with some but not all genera of Strongylida, that not all infected hosts produce detectable antibody, and that the enzyme appears to be genus but not species specific

Enzymes

- Rotmans, J. P., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 206 [Abstract]
Schistosoma mansoni, isolation and characterization of enzymes present in worm gut for possible use in immunodiagnostic tests

Enzymes

- Rotmans, J. P.; and Deelder, A. M., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 319 [Abstract]
Schistosoma mansoni, purification of schistosoma enzymes, possible use for immunodiagnosis

Enzymes

- Rubin, H.; and Trelease, R. N., 1976, *J. Cell Biol.*, v. 70 (2, pt. 1), 374-383
Ascaris suum larvae, evidence favors localization of glyoxylate cycle enzymes in mitochondria

Enzymes

- Ruff, M. D.; et al., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (3), 297-307
Babesia gibsoni, serum levels of various enzymes in infected dogs with respect to possible liver damage

Enzymes

- Ruitenbergh, E. J.; Teppema, J. S.; and Steerenberg, P. A., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 319-326
Trichinella spiralis intestinal phase, no evidence found for immunity-induced changes in enzyme histochemical staining pattern of adult worms, detection of antigen or of antigen-antibody complexes using bridge immuno-peroxidase anti-peroxidase technique, immunoglobulins found around cuticle of adult worms even in ATS-treated animals

Enzymes

- Salah, L. A.; et al., 1976, *J. Trop. Med. and Hyg.*, v. 79 (12), 270-274
Schistosoma mansoni, activity of serum enzymes of hepatic origin in men with active hepatic schistosomiasis and effect of niridazole therapy on enzyme activity

Enzymes

- Samuels, R.; and Pratt, M., 1975, *J. Protozool.*, v. 22 (3), 21A [Abstract]
Tritrichomonas augusta, β -galactosidases, partial characterization

Enzymes

- Sanderson, B. E.; Jenkins, D. C.; and Phillipson, R. F., 1976, *Internat. J. Parasitol.*, v. 6 (2), 99-102
Nippostrongylus brasiliensis, relation between changes in host immunity and worm acetylcholinesterase levels, results indicate that immunity-associated cholinesterase increase is to some extent reversible

Enzymes

- Sargeant, P. G.; and Williams, J. E., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 385-386 [Demonstration]
Entamoeba histolytica, enzyme electrophoresis patterns established

Enzymes

- Sasi, P. K.; and Kaleysaraj, R., 1975, *Experientia*, v. 31 (11), 1261-1262
Ascaris lumbricoides, incubation in medium containing sub-lethal concentrations of piperazine, decreased phospholipid level, partial stimulation of phospholipase C activity, partial inhibition of choline kinase activity

Enzymes

- Saxon, D. J.; and Dunagan, T. T., 1976, *Comp. Biochem. and Physiol.*, v. 55 (3B), 377-380
Macracanthorhynchus hirudinaceus vs. *Neoechinorhynchus* spp., pentose phosphate pathway enzymes, specific activities at different incubation temperatures, relationship to body temperature of homothermic vs. poikilothermic hosts

Enzymes

- Saz, H. J.; and Dunbar, G. A., 1975, *J. Parasitol.*, v. 61 (5), 794-801
Litomosoides carinii, *Dipetalonema witei*, *Brugia pahangi*, stibophen, inhibition of phosphofructokinase and lactate formation, effect on internal hexose phosphate accumulation, inhibition of aldolase, comparison with potassium antimony tartrate (inhibits PFK at higher concentrations but not aldolase); *Ascaris suum*, *Hymenolepis diminuta*, stibophen inhibition of phosphofructokinase

Enzymes

- Schelp, F. P.; et al., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 319-322
human falciparum malaria, effect of parasitism untreated for 2-4 days or 5-10 days on the host serum protein pattern, hematocrit levels, SGOT activity, and blood creatinine; measurement of these parameters may give evidence of duration and severity of infection

Enzymes

- Schleger, A. V.; and Lincoln, D. T., 1976, *Austral. J. Biol. Sc.*, v. 29 (5-6), 487-497
Boophilus microplus larvae feeding on calves, demonstration and characterization of tick enzymes secreted into host at attachment site, probable role as antigens

Enzymes

- Schmale, H.; and Becker, W., 1977, Comp. Biochem. and Physiol., v. 58 (4B), 321-330
Biomphalaria glabrata, urea cycle enzymes, activity changes under different physiological conditions (including infection with *Schistosoma mansoni*)

Enzymes

- Schmidt, G.; Walter, R. D.; and Koenigk, E., 1974, Tropenmed. u. Parasitol., v. 25 (3), 301-308
 adenosine kinase from normal mouse erythrocytes and from *Plasmodium chabaudi*, partial purification and characterization, comparison

Enzymes

- Schmidt, G.; Walter, R. D.; and Koenigk, E., 1975, Tropenmed. u. Parasitol., v. 26 (1), 19-26
Trypanosoma gambiense, purine nucleoside hydrolase obtained from parasite, purification and characterization, inhibitory effects of substrate analogs, salvage synthesis of adenosine monophosphate

Enzymes

- Schuntner, C. A.; and Thompson, P. G., 1977, J. Austral. Entom. Soc., v. 15 (4), 1976, 388
Boophilus microplus larvae, formamidine derivatives, inhibition of carbaryl oxidizing enzyme as primary lesion in lethal action

Enzymes

- Schuster, J.; et al., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 487-499
Schistosoma mansoni-infected *Mastomys natalensis* under treatment with hycanthone, pathophysiological and toxicological aspects of infection, serum enzyme activity, hepatotoxic effect of drug at higher dosages

Enzymes

- Scorza, C.; and Scorza, J. V., 1972, J. Reticuloendothel. Soc., v. 11 (6), 604-616
Trypanosoma cruzi, rats, active phagocytosis of parasites by inflammatory macrophages in auricles of heart 11 days after infection, formation of phagosomes and of phagolysosomes and alterations in ingested parasites, role of acid phosphatase in alterations of phagocytized parasites

Enzymes

- Segura, E. L.; et al., 1974, J. Protozool., v. 21 (4), 571-574
Trypanosoma cruzi epimastigotes from cultures, separation into fractions (nuclear, mitochondrial, lysosomal, microsomal, and cell-sap), DNA, RNA content and enzyme markers of fractions, subcellular localization of antigens by Ouchterlony tests in cell-sap and microsomal fractions

Enzymes

- Seliukaite, Z.; and Semenov, V. M., 1976, Tsitologija, v. 18 (1), 91-97
Trichomonas muris, trophonts, ultrastructural and cytochemical peculiarities, absence of mitochondria

Enzymes

- Senft, A. W.; and Maddison, S. E., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 83-89
 proteolytic enzyme of *Schistosoma mansoni* induced histaminic skin reactions in laboratory animals without cross reactions from other *Schistosoma* spp., preliminary skin test trials in humans suggest value as diagnostic test for schistosomiasis

Enzymes

- Serrano, R.; Deas, J. E.; and Warren, L. G., 1977, Exper. Parasitol., v. 41 (2), 370-384
Entamoeba histolytica, cell fractionation study, isolation and electron microscopy of two membrane fractions, properties and distribution of marker enzymes, chemical analysis of fractions, electrophoretic patterns of membrane polypeptides, glucose transport

Enzymes

- Sharma, P. N., 1976, Ztschr. Parasitenk., v. 49 (3), 223-231
 digenetic trematodes, distribution of alkaline phosphatase, acid phosphatase, 5-nucleotidase and ATPase in various reproductive tissues

Enzymes

- Sharma, R. K.; Singh, K.; and Sharma, P. K., 1976, Ztschr. Parasitenk., v. 49 (2), 187-192
Stephanurus dentatus, non-specific phosphomonoesterases, activity, distribution in various tissues

Enzymes

- Sharpe, M. J.; and Lee, D. L., 1977, Parasitology, v. 75 (2), xvi [Abstract]
Trichostrongylus colubriformis, *Nematospiroides dubius*, effect of levamisole on adenylate energy charge and on levels of acetylcholinesterase

Enzymes

- Shirley, M. W., 1975, J. Protozool., v. 22 (3), 55A-56A [Abstract]
Eimeria spp., lactate dehydrogenase, glucose phosphate isomerase, characteristic electrophoretic mobilities for different species, parasite identification and other possible applications

Enzymes

- Shirley, M. W.; and Lee, D. L., 1977, J. Parasitol., v. 63 (2), 390-392
Eimeria spp., isoelectric focusing of enzymes, compared with starch gel electrophoresis, inter- and intraspecies differences

Enzymes

- Shirley, M. W.; Millard, B. J.; and Long, P. L., 1977, Parasitology, v. 75 (2), 165-176
Eimeria acervulina var. *diminuta* and *Eimeria acervulina* var. *mivati* compared, growth in vitro, response to anticoccidial drugs, electrophoretic mobility profiles of four enzymes

Enzymes

Shishova-Kasatochkina, O. A.; and Pavlov, A. V., 1969, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 20, 195-204

factor influencing resistance of helminths to host proteolytic enzymes (enzyme inhibitors secreted by helminths, chemical structure of worm cuticle, specificity of host proteolytic enzymes and structure and composition of protein molecules in helminths), review

Enzymes

da Silveira, J. F.; Zingales, B.; and Colli, W., 1977, *Biochim. et Biophys. Acta*, v. 481 (2), 722-733

Trypanosoma cruzi, particulate preparations from epimastigote forms, characterization of an adenyl cyclase activity

Enzymes

Silvestri G., R.; Himes, J. A.; and Edds, G. T., 1975, *Am. J. Vet. Research*, v. 36 (3), 283-287

sheep (adult Florida Native wethers), effect of oral administration of coumaphos alone or with trichlorfon on erythrocyte acetylcholinesterase and other blood constituents

Enzymes

Silvestri G., R.; Himes, J. A.; and Edds, G. T., 1975, *Am. J. Vet. Research*, v. 36 (3), 289-292

sheep (ewes and wethers), interaction of coumaphos with trichlorfon, bishydroxycoumarin (an anticoagulant), or phenobarbital sodium (as possible modifier of toxicity), erythrocyte acetylcholinesterase activity and other blood values

Enzymes

Simha, S. S.; and Rao, L. N., 1977, *Proc. Indian Acad. Sc., Sect. B.*, v. 86 (5), 311-321
Singhiatrema longifurca, *Paradistomoides orientalis*, fine nerve arrangement, presumptive neurosecretory cells and sensory receptors, distribution of esterases

Enzymes

Simon, M. W.; Rusnak, J. M.; and Mikkada, A. J., 1976, *Exper. Parasitol.*, v. 39 (1), 51-58

Leishmania tropica promastigotes in vitro, sensitivity to toxic effects of bilirubin (loss of viability, decreased sugar and amino acid uptake, increased efflux of intracellular sugars, hexokinase activity, lowered respiration), results suggest irreversible damage to cell membrane, possible culture loss if bilirubin concentration of hemoglobin solution used is too high

Enzymes

Simon, T.; Sartorelli, P.; and Locatelli, A., 1975, *Ann. Parasitol.*, v. 50 (4), 461-468

Fasciola hepatica homogenates, cyclic AMP phosphodiesterase activity under basal conditions and after addition of various substances

Enzymes

Simpson, A. M.; and Simpson, L., 1974, *J. Protozool.*, v. 21 (2), 379-382

continuous-labeling of *Crithidia fasciculata* DNA with [³H]thymidine is hindered by apparent presence of a thymidine phosphorylase-like enzyme activity

Enzymes

Sinclair, K. B., 1975, *Research Vet. Sc.*, v. 19 (3), 296-303

Fasciola hepatica, sheep exposed to preliminary and challenge infections, pathophysiology (circulating eosinophils, plasma proteins, and glutamate dehydrogenase, voluntary dry matter intake, plasma loss in feces), no evidence of acquired resistance to physiological effects of infection

Enzymes

Smallman, B. N.; and Riddles, P. W., 1977, *Pesticide Biochem. and Physiol.*, v. 7 (4), 355-359

Boophilus microplus, choline acetyltransferase activity uniform between organophosphorus-resistant and -susceptible strains, concluded that two enzymic components of cholinergic system are controlled independently

Enzymes

Smith, T. M.; and Brown, J. N., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 329-330

Schistosoma mansoni, *S. japonicum*, tricarboxylic acid cycle enzymes of adults of both species compared with previously published findings, results suggest that anaerobic glycolysis is the major energy source in adults of both species

Enzymes

Smith, T. M.; and Brown, J. N., 1977, *Comp. Biochem. and Physiol.*, v. 56 (3B), 351-352

Schistosoma mansoni, *S. japonicum*, comparison of glucose-6-phosphate dehydrogenase and 6-phosphogluconate dehydrogenase activities in adults, data suggest species difference in 6-phosphogluconate metabolism

Enzymes

Southgate, V. R.; and Knowles, R. J., 1976, *Parasitology*, v. 73 (2), v-vi [Abstract]

Schistosoma margrebowiei, compatible with *Bulinus tropicus* group snails and *B. truncatus* and *B. reticulatus* groups, partially compatible with some *B. forskali* group, and incompatible with *B. africanus* group; course of infection and pathogenicity in hamsters; miracidium has epidermal cell formula of 6, 9, 4, and 3; haploid chromosome number is n = 8; isoelectric focusing of isoenzymes demonstrated interspecific differences from *S. mattheei* and *S. leiperi*

Enzymes

Srivastava, M.; and Gupta, S. P., 1976, *Ztschr. Parasitenk.*, v. 49 (1), 93-96

Isoparorchis hypselobagri, egg shell formation, histochemical identification of proteins, phenols, and phenolase in vitelline globules, presence of quinone tanning system confirmed as shell formation mechanism

Enzymes

Stevens, A. R.; et al., 1977, *J. Protozool.*, v. 24 (2), 316-324

Acanthamoeba castellanii, *A. culbertsoni*, isolation and purity of plasma membrane antigens (electron microscopy, assays of marker enzymes), antisera raised against these antigens tested against homologous and heterologous *Acanthamoeba* spp. in agglutination and immunofluorescence tests, results strongly indicate value of plasma membrane antisera for immunotaxonomy and immunodiagnosis of *Acanthamoeba*

Enzymes

- Stibbs, H. H.; and Seed, J. R., 1973, *J. Protozool.*, v. 20 (4), 503
Trypanosoma brucei gambiense-infected *Microtus montanus*, elevated serum tyrosine transaminase levels, high levels of this enzyme found in sonicated preparations of parasite itself

Enzymes

- Stibbs, H. H.; and Seed, J. R., 1976, *Exper. Parasitol.*, v. 39 (1), 1-6
Trypanosoma brucei gambiense, chronically infected *Microtus montanus*, elevated serum and hepatic tyrosine aminotransferase, high serum levels may result from lysis of parasites (possibly due to agglutination by antibody) containing high levels of enzyme, implications for catecholamine metabolism and consequently for pathologic behavioral syndrome

Enzymes

- Stone, B. F.; Nolan, J.; and Schuntner, C. A., 1976, *Austral. J. Biol. Sc.*, v. 29 (3), 265-279
Boophilus microplus, 3 strains, biochemical genetics of resistance to organophosphorus acaricides: inheritance of decreased brain acetylcholinesterase activity, inheritance of decreased AChE sensitivity, inheritance of increased detoxication

Enzymes

- Stone, B. F.; Wilson, J. T.; and Youlton, N. J., 1976, *Austral. J. Biol. Sc.*, v. 29 (3), 251-263
Boophilus microplus, 3 strains, linkage and dominance characteristics of genes for resistance to organophosphorus acaricides and allelic inheritance of decreased brain cholinesterase activity

Enzymes

- Stone, D. B.; and Mansour, T. E., 1967, *Molec. Pharm.*, v. 3 (2), 161-176
Fasciola hepatica, phosphofructokinase, isolation, activation by adenosine 3',5'-phosphate and by serotonin

Enzymes

- Stone, D. B.; and Mansour, T. E., 1967, *Molec. Pharm.*, v. 3 (2), 177-187
Fasciola hepatica, phosphofructokinase, kinetic properties

Enzymes

- Stringfellow, F., 1976, *Proc. Helminth. Soc. Washington*, v. 43 (2), 206-211
Pelodera strongyloides in culture, determination of presence and distribution of carbonic anhydrase in worms, addition of diamox to cultures resulted in inhibition of carbonic anhydrase, reduced quantity of ammonia nitrogen production, and decreased ability of worms to find each other

Enzymes

- Takayanagi, T.; Enriquez, G. L.; and Kambara, H., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (3), 308-312
Trichomonas vaginalis, determination of amylase isozymes by starch gel electrophoresis in order to establish parasite strains

Enzymes

- Takemoto, Y.; et al., 1977, *Bull. Univ. Osaka Prefect.*, s. B, Agric. and Biol., v. 29, 32-41
Fasciola sp., *Macaca* monkeys, alterations in total and individual serum proteins, total serum bilirubin, various serum enzyme activities

Enzymes

- Takeuchi, T.; Weinbach, E. C.; and Diamond, L. S., 1977, *Exper. Parasitol.*, v. 43 (1), 107-114
Entamoeba histolytica, phosphorylase, particulate glycogen, subcellular distribution, characterization, particulate glycogen may be polysaccharide-protein complex

Enzymes

- Takeuchi, T.; Weinbach, E. C.; and Diamond, L. S., 1977, *Exper. Parasitol.*, v. 43 (1), 115-121
Entamoeba histolytica, phosphoglucomutase, uridine diphosphate glucose pyrophosphorylase, glycogen synthase, subcellular distribution, characterization

Enzymes

- Takizawa, H.; Vivier, E.; and Petitprez, A., 1975, *J. Protozool.*, v. 22 (3), 359-368
Nosema bombycis, cytochemistry, presence of nucleic acids, polysaccharides, and acid phosphatases demonstrated, localization in various stages of development from schizont to spore

Enzymes

- Terwedow, H. A., jr.; and Huff, R. L., 1976, *J. Parasitol.*, v. 62 (1), 172-174
Wuchereria bancrofti microfilariae, localization and pattern of acid phosphatase activity, possible taxonomic tool in differentiating microfilariae of different species but strain and technique variation must be taken into account

Enzymes

- Theakston, R. D. G.; and Fletcher, K. A., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 16-17 [Demonstration]
Plasmodium spp., 6-phosphogluconate dehydrogenase in infected erythrocytes, activity present in parasite cytoplasm as well as in host cell

Enzymes

- Theakston, R. D. G.; Fletcher, K. A.; and Moore, G. A., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (1), 125-127
Plasmodium falciparum-infected human erythrocytes, glucose-6-phosphate and 6-phosphogluconate dehydrogenase activity

Enzymes

Thomas, R. J.; and Waller, P. J., 1975, *Vet. Rec.*, v. 97 (24), 468-471

Ostertagia circumcincta, lambs naturally infected on pasture from spring to autumn, faecal egg counts, worm counts, serum pepsinogen levels, body weights, correlations; serum pepsinogen estimations as possible diagnostic test

Enzymes

Tizard, I. R.; et al., 1977, *Experientia*, v. 33 (7), 901-902

Trypanosoma congolense, hemolytic activity is due to presence of free fatty acids generated by action of phospholipase A on endogenous phosphatidyl choline, some lysolecithin also contributes to lytic activity, *T. lewisi* is devoid of phospholipase A and does not generate free fatty acids and is therefore non-hemolytic

Enzymes

Tkachuck, R. D.; et al., 1977, *J. Parasitol.*, v. 63 (5), 769-774

Spirometra mansonoides, methylmalonyl CoA mutase and propionyl CoA carboxylase, presence and possible function

Enzymes

Tkachuck, R. D.; Weinstein, P. P.; and Mueller, J. F., 1976, *J. Parasitol.*, v. 62 (6), 948-950

Spirometra mansonoides adults, isolation of cobamide coenzyme (light-sensitive vitamin B₁₂ derivative) and identification as adenosylcobalamin

Enzymes

Toye, P. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 147 [Abstract]

Trypanosoma cruzi, isoenzyme variation in culture isolates

Enzymes

Toye, P. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 266 [Demonstration]

Trypanosoma rangeli, *T. cruzi*, *T. lewisi*, differentiation of enzyme patterns of culture forms

Enzymes

Trigg, P. I.; and Shakespeare, P. G., 1976, *Parasitology*, v. 73 (2), 149-160

changes in uninfected rhesus monkey erythrocytes incubated in vitro (osmotic fragility, acetylthiocholinesterase activity, glucose catabolism, ATP content) in relation to susceptibility of these cells to invasion by *Plasmodium knowlesi*, results suggest that maintenance of erythrocyte surface integrity is necessary prerequisite for efficient culture system for malaria parasite

Enzymes

Tsang, V. C. W.; Hubbard, W. J.; and Damian, R. T., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (2), 243-247

Schistosoma mansoni, presence of schistosomal inhibitor for the intrinsic blood coagulation pathway of host which is capable of specifically blocking the enzymatic activation of pre-plasma thromboplastin antecedent by activated Hageman factor

Enzymes

Tsakamoto, M., 1974, *Nettai Igaku (Trop. Med.)*, v. 16 (2), 55-69

Plasmodium berghei, diagnostic differentiation of enzymes by polyacrylamide gel electrophoresis

Enzymes

Ukoli, F. M. A., 1973, *Malacol. Rev.*, v. 6 (1), 47-48

Schistosoma mansoni, *Biomphalaria vector* snails, species differentiation, foot muscle esterases, application to infectivity studies: Africa

Enzymes

Ukoli, F. M. A., 1974, *Malacol. Rev.*, v. 7 (1), 15-24

Schistosoma haematobium, differentiation of *Biomphalaria* spp. snail vectors through electrophoretic studies on foot muscle esterases

Enzymes

Venkatesan, S.; Bird, R. G.; and Ormerod, W. E., 1977, *Internat. J. Parasitol.*, v. 7 (2), 139-147

Trypanosoma brucei rhodesiense, intracellular enzymes and their localization in slender and stumpy forms, possible relation to lipid content

Enzymes

Venkatesan, S.; and Ormerod, W. E., 1973, *J. Protozool.*, v. 20 (4), 529

Trypanosoma brucei, long-thin vs. short-stumpy forms, differences in lipids and in lysosomal enzymes, short-stumpy considered to be degenerate form as result of action of hydrolytic enzymes released at lyso-phagosomal junction, thus disease remission occurs as result of action of lysosomal enzymes rather than antibody activity

Enzymes

Vercelli-Retta, J.; et al., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 15-23

Echinococcus granulosus, hydatid cysts from human and bovine lungs, germinal membrane, histochemistry and histoenzymology, enzymes, lipids, metabolic pathways, possible endocrine system; possible future pharmacological studies for interference with parasite development

Enzymes

Vessal, M.; and Abdolrasulnia, R., 1976, *Clin. Chim. Acta*, v. 68 (1), 59-65

Echinococcus granulosus, protoscolices from ovine liver, phosphoglucose isomerase, partial purification, properties, comparison with properties of hydatid cyst fluid and healthy ovine liver enzymes

Enzymes

Vetterling, J. M.; and Waldrop, H. R., 1976, *J. Protozool.*, v. 23 (3), 397-402

Eimeria tenella and chick kidney cell cultures, demonstration of phosphatases, effect of fixation (type, concentration, and duration)

Enzymes

- Villegas-Gonzalez, J.; and Fastag de Shor, A., 1974, *Bol. Med. Hosp. Inf.*, v. 31 (1), 35-49
Entamoeba histolytica, children, invasive amoebiasis, pathologic review of autopsies; comparison axenic and monoxenic cultures, multiple enzymes present, relationship between acid phosphatase and invasive capacity of parasite

Enzymes

- Visvesvara, G. S.; and Balamuth, W., 1975, *J. Protozool.*, v. 22 (2), 245-256
Acanthamoeba, *Naegleria*, *Hartmannella*, comparative studies on free-living and pathogenic amebae: cyst structure; nutrition; protein composition; immunology; cell free plaques and other cytopathic effects; phospholipase liberation; sensitivity to amphotericin B

Enzymes

- Vivares, C. P.; Trelu, J.; and Ceccaldi, H. J., 1977, *Experientia*, v. 33 (10), 1311-1312
Thelohania maenadis-infected vs. uninfected *Carcinus mediterraneus*, electrophoregrams (proteingram and zymogram) of hemolymph proteins, parasitized crabs show increase in chymotrypsin activity and variations in zones of esterase activity

Enzymes

- Vivares, C. P.; and Van Wormhoudt, A., 1976, *Compt. Rend. Soc. Biol.*, Paris, v. 170 (1), 71-77
Cephaloidophora conformis in *Pachygrapsus marmoratus* (caecum digestif anterieur), carbohydrate metabolism of host and parasite: region de Marseille

Enzymes

- van Vliet, H. H. D. M.; et al., 1976, *J. Cell Biol.*, v. 71 (2), 357-369
Entamoeba invadens, procedure for subcellular fractionation, isolation of phagolysosomal and plasma membranes, characterization (enzymes, lipids, morphology)

Enzymes

- Walker, R. W., 1977, *Parasitology*, v. 75 (2), xxii-xxiii [Abstract]
Hymenolepis diminuta, *Schistocephalus solidus*, relationship between temperature change and mitochondrial ATPase activity

Enzymes

- Walliker, D., 1976, *Symposia Brit. Soc. Parasitol.*, v. 14, 25-44
Plasmodium, genetic techniques (hybridization and cloning; genetic markers--enzyme polymorphism, drug-resistance, etc.), genetic recombination experiments, genetic factors influencing host-parasite relationships (strain-specific immunity; virulence), symposium presentation

Enzymes

- Walter, R. D., 1976, *Biochim. et Biophys. Acta*, v. 429 (1), 137-146
Trypanosoma gambiense, protein kinase, partial purification and characterization, nucleoside-dependent but cyclic AMP-independent

Enzymes

- Walter, R. D., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 337-342
Paragonimus africanus, properties of 3',5'-cyclic-AMP-5'-nucleotidohydrolase purified from metacercariae, inhibitory actions of purine derivatives on the enzyme activity

Enzymes

- Walter, R. D.; and Koenigk, E., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 227-235
Plasmodium chabaudi, hypoxanthine-guanine phosphoribosyltransferase and adenine phosphoribosyltransferase, purification and characterization

Enzymes

- Wang, C. C.; and Stotish, R. L., 1975, *J. Parasitol.*, v. 61 (5), 923-927
Eimeria tenella, in vitro excystation, pancreatic chymotrypsin as essential enzyme

Enzymes

- Wang, C. C.; Stotish, R. L.; and Poe, M., 1975, *J. Protozool.*, v. 22 (4), 564-568
Eimeria tenella oocysts, dihydrofolate reductase, isolation and purification, kinetic parameters and molecular weight estimate; pyrimethamine is potent inhibitor of activity of *E. tenella* dihydrofolate reductase but less effective inhibitor of dihydrofolate reductase of chicken liver, difference may explain in vivo therapeutic action of pyrimethamine, opposite results with methotrexate

Enzymes

- Wang, C. C.; Weppelman, R. M.; and Lopez-Ramos, B., 1975, *J. Protozool.*, v. 22 (4), 560-564
Eimeria tenella oocysts, amylopectin granules, isolation, purification, composition, identification of amylopectin phosphorylase, preliminary studies on properties and regulation

Enzymes

- Warhurst, D. C.; and Thomas, S. C., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 428 [Demonstration]
Plasmodium berghei, chloroquine treatment in vitro causes digestive vesicles containing hemozoin to clump together, competitive inhibition of this clumping by quinine and oligomycin, possibility that clumping site is a membrane ATP-ase used by the intrerythrocytic parasite

Enzymes

- Warton, A., 1975, *J. Protozool.*, v. 22 (3), 69A-70A [Abstract]
Trypanosoma cruzi, microbodies (peroxisomes), ultrastructural localization using 3,3'-diaminobenzidine

Enzymes

- Warton, A.; and Modlinska, M., 1977, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 24 (10), 1976, 611-613
Trypanosoma cruzi, blood forms, ultrastructural localization of peroxisomes following incubation with diaminobenzidine to demonstrate catalase, electron microscopy, possible metabolic role

Enzymes

- Weber, G., 1976, Ztschr. Parasitenk., v. 50 (2), 185
Babesia ovis and *B. bigemina* in blood films, immunocytochemical detection of catabolic enzymes, possible implications

Enzymes

- Weidner, E., 1975, Ztschr. Parasitenk., v. 47 (1), 1-9
Encephalitozoon cuniculi, parasitophorous vacuoles within host peritoneal macrophages, growth by pinocytotic mechanism, movement of substances across vacuole boundary, absence of lysosomal fusion, electron microscopy

Enzymes

- Weinbach, E. C.; et al., 1977, Exper. Parasitol., v. 41 (1), 186-197
Entamoeba histolytica, diaphorase activities

Enzymes

- Wheater, P. R.; and Wilson, R. A., 1976, Parasitology, v. 72 (1), 99-109
Schistosoma mansoni, tegument, histochemistry, main components are neutral glycoprotein and phospholipid, differentiation from other schistosome tissues on the basis of marker enzymes

Enzymes

- Wilkins, D.; and Lee, D. L., 1976, Parasitology, v. 72 (1), 51-63
Histomonas meleagridis, caecal wall and liver of infected turkey poults, changes in amount and distribution of acid and alkaline phosphatase, non-specific esterase, glycogen, lipid, and acid mucopolysaccharide

Enzymes

- Willadsen, P., 1976, FEBS Letters, v. 72 (2), 346-349
Boophilus microplus, allergenic activity of a tick esterase

Enzymes

- Willadsen, P., 1977, Austral. J. Biol. Sc., v. 30 (5), 411-419
Oesophagostomum radiatum, isolation and partial characterization of α -chymotrypsin inhibitor in the cuticle, hypodermis, and musculature, affinity chromatography compared with ion-exchange and molecular sieve chromatography

Enzymes

- Willadsen, P.; and Williams, P. G., 1976, Immunochimistry, v. 13 (7), 591-597
Boophilus microplus larvae, isolation of antigen which produces immediate hypersensitivity reaction in naturally infected cattle, characterized as esterase with molecular weight of approximately 60,000

Enzymes

- Wright, C. A.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 287 [Demonstration]
Schistosoma, African strains, characterization and differentiation by enzymes patterns

Enzymes

- Wright, C. A.; and Southgate, V. R., 1976, Symposia Brit. Soc. Parasitol., v. 14, 55-86
 hybridization of schistosomes (history, reciprocity of interspecific pairings, egg morphology of hybrids, intermediate and definitive host infectivity of hybrids, behavior of hybrid cercariae, isoenzymes of hybrids), review with results of recent work on *Schistosoma haematobium* X *S. intercalatum*, practical implications, symposium presentation

Enzymes

- Wright, I. G., 1975, Vet. Parasitol., v. 1 (1), 91-96
 purification of esterase from *Babesia argentina*, probable role in in vitro activation of plasma prekallikrein, implications for mechanism of vasodilatory shock and disseminated intravascular coagulation in acute infections

Enzymes

- Yeates, R. A.; and Ogilvie, B. M., 1976, J. Immunol. Methods, v. 12 (1-2), 57-65
Nippostrongylus brasiliensis, *Necator americanus*, measurement of antibodies to an unpurified enzyme (acetylcholinesterase) using an active-site directed radiolabel, cross-reactions between the two species

Enzymes

- Yoeli, M., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 24-35
Plasmodium berghei yoelii in mice (exper.), promising model for study of cerebral malaria in man caused by *P. falciparum* (history, origin of virulent strain, pathology, enzyme differentiation, virulence expressed by mutation and genetic change)

Enzymes

- Yoshino, T. P.; and Cheng, T. C., 1977, J. Invert. Path., v. 30 (1), 76-79
Biomphalaria glabrata, aminopeptidase activity in hemolymph and body tissues, possible role of this enzyme relative to resistance to infection (including *Schistosoma mansoni*)

Enzymes

- Zaitseva, G. N.; Mett, I. L.; and Kolesnikov, A. A., 1976, Biokhimiia, v. 41 (8), 1406-1411
Crithidia oncopelti, DNA-dependent RNA-polymerase activity of isolated kinetoplasts, effect of antibiotics and intercalating agents

Enzymes

- Zherebkin, M. V., 1976, Apiacta, v. 11 (1), 5-9
Nosema disease, resistance in honey bees, relationship of the enzyme chimosine to peritrophic membrane in midgut and protection against parasite

Eosinophilia. [See also Blood; Immunity, Eosinophils and eosinophilia]

Eosinophilia

- Adickman, M.; and Tuthill, T. M., 1976, Postgrad. Med., v. 60 (3), 143-148
pulmonary symptoms and eosinophilia associated with human parasitic infections, diagnostic and clinical review, need for increased awareness in travelers to endemic areas, immigrants and military personnel

Eosinophilia

- Aftandeliants, R.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 64-71
Capillaria aerophila, granulomatous lesion containing worm removed from lung of child presenting with asthmatic symptoms and eosinophilia, treatment with diethylcarbamazine and thiabendazole relieved symptoms, clinical case report, possible transmission through cat-contaminated play area: Teheran, Iran

Eosinophilia

- Balbo, T.; et al., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 33-71
Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology; blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)

Eosinophilia

- Baqui, A.; and Ansari, J. A., 1975, Indian J. Zool., v. 3 (1-2), 43-48
Setaria cervi, white rats (blood) (exper.), leucocytic response

Eosinophilia

- Barbotin, M.; and Oudart, J. L., 1972, Nouv. Presse Med., v. 1 (17), 1162 [Letter]
possible correlations between human intestinal helminthiasis in the presence of hyper-eosinophilia and the presence of Australia antigen

Eosinophilia

- Barrett-Connor, E.; et al., 1976, J. Infect. Dis., v. 133 (4), 473-477
Trichinella spiralis, outbreak in campers after eating roasted wild pig, diagnosis by eosinophilia and sero-immunologic studies; diagnostic test comparisons, skin-test antigen inconclusive: California (infected in Hawaii)

Eosinophilia

- Bradbury, S. M.; Percy, D. H.; and Strejan, G. H., 1974, Internat. Arch. Allergy and Applied Immunol., v. 46 (4), 498-511
Ascaris suum, rats infected with embryonated eggs, characteristic pathological changes in liver and lungs, eosinophilia, production of reaginic antibodies, purified Ascaris antigen (Asc-1) present in all stages of parasite life cycle and directly involved in stimulating reagin production during migratory phase of infection

Eosinophilia

- Bulucea, D., 1971, Pediatria, Bucuresti, v. 20 (2), 163-168
mixed ascariasis and lambliasis in young child with persistent eosinophilia which was not relieved by cure of parasitemia, clinical case report: Romania

Eosinophilia

- Bulucea, D., 1974, Med. Int., Bucuresti, v. 26 (2), 249-256
ascariasis and Trichocephalus as causes of massive eosinophilia

Eosinophilia

- Burke, G. J., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 402-405
10 patients with presumed parasitological disease, circulating absolute eosinophil levels over a 24 hour period, periodicity, steroid administration will not separate parasitic from other causes of eosinophilia

Eosinophilia

- Calamel, M.; Soule, C.; and Chevrier, L., 1975, Rec. Med. Vet., v. 151 (12), 777-781
Taenia ovis, sheep, experimental infections with various doses, localization of cysticerci, duration of infection longer with lower doses, persistence of antibodies, eosinophilia

Eosinophilia

- Daffalla, A. A.; and Ali Omer, M. I., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 544-545
probable toxocarosis in 7-year old boy with high eosinophilia, fever and abdominal distention; positive toxocaral skin test and fluorescent antibody test, marked improvement with diethylcarbamazine therapy: Gezira area, Sudan

Eosinophilia

- Diesfeld, H. J.; Dutta, S. N.; and Braun-Munzinger, R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 439-446
Wuchereria bancrofti-endemic area, survey of 225 Indians, microfilaremia, fluorescent antibody titer, clinical manifestations, eosinophilia, immunoglobulin levels: Dhanbad/Asansol, India

Eosinophilia

- Dobson, C.; and Welch, J. S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 223-228
survey for antibodies against Dirofilaria immitis, Toxocara canis, Ascaris suum, Angiostrongylus cantonensis, A. mackerrasae, in patients with eosinophilia using fluorescent antibody test and passive reversed Arthus test in guinea pigs; D. immitis implicated as etiologic agent of human eosinophilic meningitis: Australia

- Eosinophilia
 Draghici, O., 1973, Med. Int., Bucuresti, v. 25 (8), 945-953
 clinical manifestations of human *Strongyloides stercoralis*, eosinophilia changes before and after treatment with telmid or gentian violet, case reports
- Eosinophilia
 Fay, J. T.; and Disque, F. C., 1977, Oral Surg., v. 43 (6), 898-901
Strongyloides stercoralis systemic infection in Vietnamese woman discovered as a result of routine biopsy and excision of impacted molar, increased eosinophilia led to medical work-up for possible parasitism, case history, successful treatment with di-thiazanine: Georgia
- Eosinophilia
 Gehrung, E.; et al., 1967, Bol. Chileno Parasitol., v. 22 (1), 37-39
Fasciola hepatica infection in pregnant woman, eosinophil count not elevated resulting in diagnostic problems and surgical intervention, parasite eggs discovered in bile and patient then successfully treated with emetine hydrochloride: Santiago, Chile
- Eosinophilia
 Germain, P., 1971, Medecine Interne, v. 6 (4), 249-272
 diagnosis and clinical aspects of tropical diseases of Africans who have travelled and migrated to non-endemic areas, review
- Eosinophilia
 Giboda, M.; and Beno, P., 1974, Ceskoslov. Pediat., v. 29 (7), 383-385
Fasciola hepatica, infections in 2 children presenting as eosinophilia, case histories, treatment with bitin successful in one child but symptoms persisted in second: Czechoslovakia
- Eosinophilia
 Gietko, M.; and Zapart, W., 1975, Pediat. Polska, v. 50 (1), 61-68
 visceral larva migrans in young children with severe eosinophilia, diagnosed by intradermal skin test antigens of *Ascaris lumbricoides* and *Toxocara canis*
- Eosinophilia
 Grove, D. I.; Burston, T. O.; and Forbes, I. J., 1974, Clin. and Exper. Immunol., v. 18 (4), 565-569
 hookworm-infested population, high serum IgE levels, serum IgE and blood eosinophil levels fell after treatment with pyrantel: Papua New Guinea
- Eosinophilia
 Gudiol, F.; et al., 1974, Med. Clin., Barcelona, v. 63 (3), 125-137
 human *Trichinella spiralis*, comprehensive resume of finding observed in 22 human infections (predominance of females, inverse relationship to alcoholic consumption, eosinophilia, changes in blood protein levels, metabolic activity of parasitized muscles, treatment with thiabendazole)
- Eosinophilia
 Haroun, E. M.; and Hussein, M. F., 1975, J. Helminth., v. 49 (3), 143-152
Fasciola gigantica, pathological, haematological, and biochemical aspects of naturally occurring bovine fascioliasis: Sudan
- Eosinophilia
 Haroun, E. M.; and Hussein, M. F., 1976, J. Helminth., v. 50 (1), 29-30
Fasciola gigantica, calves (exper.), pathological, haematological, and biochemical aspects of infection
- Eosinophilia
 Hart, R. J.; and Wagner, A. M., 1971, Onderstepoort J. Vet. Research, v. 38 (2), 111-116
Gaigeria pachyscelis, sheep (exper.), pathological physiology (macrocytic normochromic anaemia, hypoproteinaemia, hypocalcaemia, hyperglycaemia, eosinophilia); some fatalities, due primarily to loss of blood
- Eosinophilia
 Hazel, J. R.; and Grant, A. K., 1969, Med. J. Australia, v. 2 (23), 1159-1160
Strongyloides stercoralis in Australian soldier who had served in South-East Asia, marked eosinophilia, malaise and skin rash as presenting symptoms, case report, cured with thiabendazole
- Eosinophilia
 Hussein, M. F.; and Tartour, G., 1973, Brit. Vet. J., v. 129 (6), xciv-xcvi
Schistosoma bovis, *S. mattheei*, calves (exper.), marked changes in serum proteins and eosinophilia, particularly after prepatency
- Eosinophilia
 Jones, H. I., 1976, Papua N. Guinea Med. J., v. 19 (3), 165-172
Ascaris lumbricoides, *Necator americanus*, *Trichuris trichiura*, epidemiologic survey of human helminths in natives of Kar Kar Island, *Ascaris* infections highest and heaviest in children and principal cause of high eosinophilia in the communities: Madang Province, Papua New Guinea
- Eosinophilia
 Jorgensen, R. J.; et al., 1975, Vet. Parasitol., v. 1 (2), 151-157
Ascaris suum, piglets (exper.), failure to establish patent infections with primary infection dose of 10,000 eggs, significant eosinophil response; patent infections established with dose of 50 eggs, no significant eosinophil response; mechanism of expulsion of high level infections not known
- Eosinophilia
 Juels, C. W.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (6, pt. 1), 942-944
Phocanema sp. larva coughed up from throat of man several days after he had eaten raw fish, case report, evidence of possible temporary tissue invasion because of mild transitory eosinophilia: California

- Eosinophilia**
Lagardere, B.; and Danis, M., 1976, *Medecine Infant.*, v. 83 (1), 23-26
differential diagnosis of possible parasitic causes of eosinophilia in children
- Eosinophilia**
Loison, G.; Jardin, C.; and Crosnier, J., 1973, *Medecine Trop.*, v. 33 (2), 143-161
human eosinophilic meningitis caused by *Angiostrongylus cantonensis*, possible transmission through contaminated food, public health program, improved sanitation as control measures: South Pacific Islands
- Eosinophilia**
Loret, P.; and Pascalon, J. P., 1972, *Medecine Trop.*, v. 32 (5), 630-635
Toxocara canis infection in 19-month old child characterized by eosinophilia and hepatosplenomegalia of year's duration, case report, mintezol
- Eosinophilia**
Moreau, J. P. J.; and Outin-Fabre, D., 1972, *Medecine Afrique Noire*, v. 19 (1), 41-42
Angiostrongylus cantonensis, life cycle, cause of human eosinophilic meningitis
- Eosinophilia**
Neal, W. P., 1971, *Maternal and Child Health*, v. 3 (12), 38-39
persistent eosinophilia, diagnostic in suspected human parasitic infestations
- Eosinophilia**
O'Brien, W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 69-77
Strongyloides stercoralis, intestinal malabsorption associated with high eosinophilia occurring in young soldiers probably resulting from parasitic infestation: Borneo
- Eosinophilia**
de Oliveira, A. R., 1976, *Arq. Inst. Biol.*, Sao Paulo, v. 43 (1-2), 53-56
Oesophagostomum sp., *Cooperia* sp., *Haemonchus* sp., calves (exper.), no correlation between level of infestation and circulating eosinophils, may result from eosinophil migration to affected organs or bone marrow exhaustion
- Eosinophilia**
Pampiglione, S.; and Airo', R., 1974, *Riv. Parassitol.*, Roma, v. 35 (4), 285-290
pygmies and Bantu, high eosinophilia due to heavy helminth infections: Central African Republic
- Eosinophilia**
Pavri, K. M., 1976, *Indian J. Med. Research*, v. 64 (5), 713-729
discussion of possible role of helminth parasites and viruses in etiology of dengue hemorrhagic fever and shock syndrome
- Eosinophilia**
Pirame, Y.; et al., 1973, *Medecine Trop.*, v. 33 (2), 131-141
human eosinophilic meningitis caused by *Angiostrongylus cantonensis*, case reports, clinical aspects, dehydroemetine treatment: Nouvelle-Caledonie
- Eosinophilia**
Rollier, R.; et al., 1974, *Maroc Med.* (579), v. 54, 321-322
child, Norwegian type scabies associated with *Hymenolepis nana* intestinal infection, case report: Casablanca
- Eosinophilia**
Ruitenberg, E. J.; et al., 1976, *Nederl. Tijdschr. Geneesk.*, v. 120 (15), 645-649
Toxocara canis, survey of 253 children for complement-fixing antibodies against Toxocara shows low incidence; eosinophilia attributed to presence of *Enterobius vermicularis*: Netherlands
- Eosinophilia**
Sagua, H.; et al., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 58-60
eosinophilia, intradermal, ring precipitation and bentonite flocculation tests, comparison of results in persons at time of *Trichinella spiralis* infection and 8 1/2 years after infection
- Eosinophilia**
Salih, S. Y.; Abu Sabaa, H. M.; and Ali, M. S., 1977, *East African Med. J.*, v. 54 (8), 421-424
Schistosoma mansoni, humans, evaluation of peripheral eosinophilia in the presence of infection and its relationship to hepatomegaly; possible use as diagnostic feature
- Eosinophilia**
Saltos, N.; Ghosh, H. K.; and Gan, A., 1975, *Med. J. Australia*, v. 1 (18), 561-562
case report of eosinophilic meningitis probably resulting from *Angiostrongylus cantonensis*, condition improved after course of thiabendazole: New South Wales
- Eosinophilia**
Shields, J. A.; Lerner, H. A.; and Felberg, N. T., 1977, *Am. J. Ophth.*, Chicago, v. 84 (3), 319-322
probable *Toxocara endophthalmitis* in child with white fundus mass in right eye, differential diagnosis from retinoblastoma on basis of increased eosinophilia and normal lactate dehydrogenase levels in aqueous aspiration, conservative treatment resulted in resolution of eye mass: Philadelphia, Pennsylvania
- Eosinophilia**
Sinclair, K. B., 1975, *Research Vet. Sc.*, v. 19 (3), 296-303
Fasciola hepatica, sheep exposed to preliminary and challenge infections, pathophysiology (circulating eosinophils, plasma proteins, and glutamate dehydrogenase, voluntary dry matter intake, plasma loss in feces), no evidence of acquired resistance to physiological effects of infection

- Eosinophilia**
 Sinios, A., 1972, *Monatschr. Kinderh.*, v. 120 (9), 378-381
Ascaris lumbricoides causing interstitial eosinophilic pertussis-like pneumonia in newborn, diagnosis by direct and indirect precipitation reaction after emesis of adult *Ascaris* by mother
- Eosinophilia**
 Sroczyński, J., 1977, *Polski Tygod. Lekar.*, v. 32 (16), 589-591
Necator americanus, [*Wuchereria*] *bancrofti*, *Schistosoma mansoni*, studies on hospitalized Africans to assess variations in blood picture during infections showed anemia in hookworm to be mainly iron deficiency while schistosomiasis caused protein deficiency, eosinophilia of peripheral origin rather than correlated with changes in bone marrow
- Eosinophilia**
 Stankiewicz, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 161-173
Strongyloides papillosus, sheep, single and multiple infections with sheep and rabbit strains, changes in leukocyte composition of peripheral blood
- Eosinophilia**
 Sucharit, S.; Riganti, M.; and Harinasuta, C., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (2), 223-225
Brugia pahangi in white rats and gerbils being used in laboratory studies to increase susceptibility to infection, evidence of splenic granulomas and high eosinophilia, possible application to research on human pulmonary eosinophilia
- Eosinophilia**
 Watts, M. B., 1969, *Med. J. Malaya*, v. 24 (2), 89-93
 first 5 case reports of eosinophilic meningitis in Sarawak, *Angiostrongylus cantonensis* probable etiologic agent
- Eosinophilia**
 Welch, J. S.; and Dobson, C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (6), 466-472
 comparative fluorescent antibody test survey of Aborigines and Caucasians for presence of antibodies to *Dirofilaria immitis* and correlations with canine filariasis; cross-reactions to *Toxocara canis* observed only in presence of eosinophilia: Queensland, Australia
- Eosinophilia**
 Wong, M. M., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 88-93
Dirofilaria repens, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered in 10 of 13 but microfilaria seen only in prednisolone-treated animals, host responses (eosinophilia and filarial antibodies)
- Eosinophilia**
 Wong, M. M.; and Lim, K. C., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 94-98
Dirofilaria tenuis, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered from 7 of 11 but microfilaria seen only in a prednisolone-treated animal, host responses (eosinophilia and filarial antibodies)
- Eosinophilia, Tropical**
 Adickman, M.; and Tuthill, T. M., 1976, *Postgrad. Med.*, v. 60 (3), 143-148
 pulmonary symptoms and eosinophilia associated with human parasitic infections, diagnostic and clinical review, need for increased awareness in travelers to endemic areas, immigrants and military personnel
- Eosinophilia, Tropical**
 Ayachit, S. D., 1972, *Oriental Arch. Opth.*, v. 10 (2), 92-96
 adult filarial worm removed from eye of man being treated for tropical eosinophilia, clinical case report: Madhya Pradesh, India
- Eosinophilia, Tropical**
 Burke, G. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 402-405
 10 patients with presumed parasitological disease, circulating absolute eosinophil levels over a 24 hour period, periodicity, steroid administration will not separate parasitic from other causes of eosinophilia
- Eosinophilia, Tropical**
 Chandrasoma, P. T.; Mendis, K. N.; and Kumararatne, D. S., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 570-571
Wuchereria bancrofti microfilariae removed from breast nodule of woman suffering from tropical pulmonary eosinophilia: Colombo, Sri Lanka
- Eosinophilia, Tropical**
 Charters, A. D.; et al., 1972, *Med. J. Australia*, v. 2 (21), 1195-1198
 tropical pulmonary eosinophilia in 2 youths who recently migrated into Western Australia, case reports, clinical management, need for awareness of possible disease transmission from endemic areas
- Eosinophilia, Tropical**
 Grove, D. I.; Warren, K. S.; and Mahmoud, A. A. F., 1975, *J. Infect. Dis.*, v. 132 (3), 340-352
 algorithms in the diagnosis and management of human forms of filariases
- Eosinophilia, Tropical**
 Sanyal, R. K.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (3), 291-296
 adrenaline-induced increase in eosinophil count in patients with tropical pulmonary eosinophilia and in *Ascaris* larvae-fed guinea pigs, possible use as diagnostic test of tropical pulmonary eosinophilia

Eosinophilia, Tropical

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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Epidemiology

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- Epidemiology
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prevalence of intestinal helminths in adult population of 3 native villages, usefulness of Kato "thick smear" technique for mass epidemiologic surveys (*Hymenolepis nana*; *Trichuris trichiura*; *Ascaris lumbricoides*; *Enterobius vermicularis*; *Schistosoma mansoni*): all from Bamako area, Mali
- Epidemiology
Rougmont, A.; et al., 1975, *Medecine Trop.*, v. 35 (5), 418-422
Schistosoma haematobium, mass epidemiologic surveys, relationship of proteinuria to human urinary schistosomiasis

- Epidemiology
Roux, J.; Picq, J. J.; and Marcadet, Y., 1974, *Medecine Trop.*, v. 34 (2), 145-155
Plasmodium falciparum, application of indirect fluorescent antibody reaction with homologous antigen to epidemiologic and chemoprophylactic studies in human endemic areas: Upper Volta
- Epidemiology
Ruebush, T. K. II; et al., 1977, *N. England J. Med.*, v. 297 (15), 825-827
Babesia microti, results of epidemiologic survey of possible cases of human babesiosis suggest that infections are self-limiting and at times sub-clinical: Nantucket Island, Massachusetts
- Epidemiology
Ruitenbergh, E. J.; and Buys, J., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (1), 31-36
Trypanosoma brucei, enzyme-linked immunosorbent assay (ELISA) for serodiagnosis of human African sleeping sickness, comparison tests with immunofluorescence technique showed good results in rabbits (exper.) and serum from infected humans, cross-reactions only in person with Leishmania antibodies, possible application to epidemiologic surveys
- Epidemiology
Ruitenbergh, E. J.; and van Knapen, F., 1977, *J. Infect. Dis.*, v. 136, suppl., S267-S273
application of the enzyme-linked immunosorbent assay to the detection of human and animal helminthic and protozoal infections, advantages of assay for seroepidemiology, discussion of performance of assay in tubes and microplates
- Epidemiology
Saiz Moreno, L., 1972, *Med. Trop.*, Madrid, v. 48 (3-4), 182-187
general review of epidemiology of Echinococcus granulosus in Spain
- Epidemiology
Sant, M. V.; Gatlewar, W. N.; and Menon, T.U.K., 1974, *Progr. Drug Research*, v. 18, 269-275
Wuchereria bancrofti, comparative epidemiologic survey of 4 Indian villages with varying prevalences of infection; evidence of serum iodine insufficiency in infected persons living in sea coast areas normally high in iodine suggests that bancroftian filarial worms do utilize host serum iodine for their metabolism
- Epidemiology
Santos, A. T., jr., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 133-136
Schistosoma japonicum, statistical review of prevalence and distribution of human schistosomiasis in the Philippine Islands
- Epidemiology
Sasa, M., 1974, *Internat. Med. Found. Japan. Reporting series* (4), 3-48
human filariasis in the Americas, extensive review, epidemiology, geographic distribution, mosquito vectors, control measures, literature review
- Epidemiology
Sasa, M., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (2), 197-210
human microfilariae, statistical technique for estimating efficiency of detection of parasites in varying volumes of blood samples taken during epidemiologic surveys
- Epidemiology
Sasa, M., 1976, *Human filariasis. A global survey of epidemiology and control*, 819 pp., illus., maps
human filariasis, global survey, epidemiology and control
- Epidemiology
Schad, G. A.; et al., 1973, *Science* (4085), v. 180, 502-504
Ancylostoma duodenale, human, seasonal variation in egg counts and larval abundance and distribution, evidence for occurrence of arrested development as an adaptation to a seasonally unfavorable external environment: West Bengal, India
- Epidemiology
Schantz, P. M., 1977, *Am. J. Epidemiol.*, v. 106 (5), 370-379
Echinococcus granulosus, extensive epidemiologic survey of increased incidence of echinococcosis among American Indians, source thought to be sheep-dog cycle with infections acquired by dogs eating home-butchered sheep offal: Arizona and New Mexico
- Epidemiology
Schantz, P. M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 312-317
Echinococcus granulosus, human; 16 cases diagnosed in 1969-1974 in 14 American Indians of 3 tribes and in 2 non-Indians, first report of echinococcosis autochthonous to this area, additional case of E. multilocularis in an Eskimo who recently migrated from Alaska: Arizona; New Mexico
- Epidemiology
Schantz, P. M.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (1), 121-126
Echinococcus granulosus, extensive epidemiologic survey of American Indians living in recent high echinococcosis endemic area, indications that infection is enzootic with sheep-dog cycle and with transmission furthered by local practice of home butchering and feeding of infected meat to pet dogs: Arizona; New Mexico
- Epidemiology
Schantz, P. M.; Juranek, D. D.; and Schultz, M. G., 1977, *J. Infect. Dis.*, v. 136 (5), 712-716
Trichinella spiralis, humans, increased incidence of infections reported in 1975, statistics of epidemiologic study: United States
- Epidemiology
Schawwalder, P., 1976, *Schweiz. Arch. Tierh.*, v. 118 (5), 203-216
parasite fauna of dogs, epidemiological and ecological parameters (resistance in relation to age, seasonal distribution in relation to ecological factors): Bern area, Switzerland

Epidemiology

Scheiber, P.; et al., 1976, Bull. World Health Organ., v. 53 (4), 472-475
human *Onchocerca volvulus*, membrane filter concentration technique for epidemiologic field studies, comparison with standard techniques showed that new technique resulted in increased incidence of observed prevalence and density of microfilariae

Epidemiology

Scheiber, P.; Braun-Munzinger, R. A.; and Southgate, B. A., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 19 [Demonstration] *Onchocerca volvulus*, humans, comparison of the millipore membrane-concentration technique and the standard skin snip technique for use as epidemiologic tools in field surveys: Togo

Epidemiology

Scheiber, P.; Braun-Munzinger, R. A.; and Southgate, B. A., 1976, Tropenmed. u. Parasitol., v. 27 (2), 224-228
epidemiologic survey in endemic area of nocturnally periodic *Wuchereria bancrofti* to compare use of conventional blood films and the membrane filtration concentration technique in detecting infections: Togo

Epidemiology

Schenone, H.; et al., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 42-45
Sarcoptes scabiei, increasing incidence in humans according to survey of cases 1960-1969 probably resulting from decreased interest shown by health departments and decreased ability of doctors to diagnose condition: Santiago, Chile

Epidemiology

Schenone, H.; et al., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 46-51
epidemiologic survey shows increasing incidence of human trichinosis, possible association with increased pork consumption and lack of satisfactory meat inspection: Santiago Province, Chile

Epidemiology

Schenone, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 2-6
scabies, human, results of epidemiologic survey of increasing incidence, prophylactic measures instituted by public health authorities, mass treatment with lindane emulsion: Santiago, Chile

Epidemiology

Schiefer, B. A.; Ward, R. A.; and Eldridge, B. F., 1977, Exper. Parasitol., v. 41 (2), 397-404
Plasmodium cynomolgi-infected *Anopheles stephensi*, reductions in laboratory flight performance, epidemiological implications

Epidemiology

Schneider, C. R., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 155-166
Mekong schistosomiasis, current status of human infection, principal focus apparently ethnic Vietnamese fishermen who inhabit raft houses on the Mekong River at Kratie, Cambodia

Epidemiology

Schwabe, C. W.; Riemann, H. P.; and Franti, C. E., 1977, Epidemiology in veterinary practice. 303 pp., illus., maps
epidemiology in veterinary practice

Epidemiology

Scott, J. M.; and Goll, P. H., 1977, Brit. Vet. J., v. 133 (3), 273-280
Fasciola hepatica, seasonal availability of metacercariae on pasture studied using parasite-free tracer lambs; anthelmintic trials with carbon tetrachloride, oxcyclozanide, and rafoxanide: Ethiopian Central Highlands

Epidemiology

Seguela, J. P.; et al., 1975, Medecine et Malad. Infect., v. 5 (11), 546-548
epidemiologic survey of *Toxoplasma gondii* among native populations in French Guiana

Epidemiology

Sehgal, S. C.; Vinayak, V. K.; and Gupta, U., 1977, Indian J. Med. Research, v. 65 (4), 509-512
human helminthic ova in feces, diagnosis using the Kato thick smear technique more successful than commonly used techniques, recommended for epidemiologic surveys: Chandigarh, India

Epidemiology

Shafer, N., 1975, N. York State J. Med., v. 75 (7), 1049-1061
Toxoplasma gondii in humans, extensive clinical review of current medical progress

Epidemiology

Shaw, P. K.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 788-796
Leishmania [sp.], human, 2 autochthonous cases, epidemiologic data suggest that dermal leishmaniasis is endemic in south-central Texas

Epidemiology

Shaw, P. K.; et al., 1977, Ann. Int. Med., v. 87 (4), 426-432
Giardia lamblia, communitywide outbreak of human giardiasis with incrimination of public water supply as source of contamination, possibility of water supply contaminated by human waste; cyst found in water supply and dogs experimentally infected with samples of raw water from the city reservoir: Rome, New York

Epidemiology

Shelley, A. J., 1975, Ann. Trop. Med. and Parasitol., v. 69 (3), 407-412
Mansonella ozzardi, human, epidemiological survey: rural communities on river Purus, state of Amazonas, Brazil

Epidemiology

Shevkunova, E. A.; et al., 1976, Zhurnal Mikrobiol., Epidemiol., i Immunobiol. (5), 64-68
toxoplasmosis, human, immunologic survey of 2643 persons, higher incidence of infection in those keeping cats, no correlation with presence of dogs: 5 areas in USSR

Epidemiology

Shiff, C. J.; and Yiannakis, C., 1976, Am. J. Trop. Med. and Hyg., v. 25 (3), 427-431
schistosomiasis, human, prevalence measured by parasitological examination and by fluorescent antibody titrating, correlation detected between mean titer and prevalence of infection particularly in younger people, suggested that fluorescent antibody titrating may be useful epidemiological tool: Rhodesia

Epidemiology

Simpson, G. E. C., 1975, Med. J. Australia, v. 1 (19), 601-602
discussion of human epidemic *Giardia lamblia* and diagnostic problems involved (diagnosed by response to flagyl treatment), need for investigation into probable epidemiology stressed: Australia

Epidemiology

Sinell'shchikov, V. A., 1973, Parazity Zhivot. i Rasten., Akad. Nauk Moldavsk. SSR (9), 230-238
epidemiological significance of faunistic complexes of malarial mosquitoes in landscape-geographic regions of Moldavia

Epidemiology

Singal, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 1-9
Plasmodium vivax, outbreak of introduced (Punjabi immigrants to agricultural area) malaria with likelihood of secondary transmission, coincidentally high numbers of *Anopheles freeborni* (effective *P. vivax* vectors) in transmission area: California

Epidemiology

Siongok, T. K. A.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 273-284
Schistosoma mansoni, cross-sectional study of entire community in endemic area, prevalence and intensity of infection (as determined by quantitative egg counts) correlated with morbidity (as determined by standard medical examination): village of lower Nduu, Machakos, Kenya

Epidemiology

Sivanandam, S.; and Dondero, T. J., jr., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 415 [Demonstration]
description of simplified, non-breakable Sinton pipette useful in filariasis surveys and research where measured thick blood smears are required

Epidemiology

Slonka, G. F.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (5), 739-743
Pediculus humanus capitis, outbreak in schoolchildren, epidemiology, recommendations for control: Georgia

Epidemiology

Slonka, G. F.; et al., 1977, J. Parasitol., v. 63 (2), 377-383
Pediculus humanus capitis, human, epidemic in public schools, sex, age, race, socioeconomic status, crowding, method of closetting garments, and family size influenced distribution of pediculosis but hair length apparently was not a factor, poverty and ignorance appeared to contribute to persistence of infestation: Buffalo, New York

Epidemiology

Soennichsen, N.; and Barthelmes, H., 1976, Ang. Parasitol., v. 17 (2), 65-70
scabies, human, epidemiology, skin tests, cross reactions between *Notoedres alepis* and *Sarcoptes scabiei*, diagnostic value of tests

Epidemiology

Sornmani, S., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 149-154
Schistosoma japonicum, statistical review of status of human schistosomiasis in Laos, Thailand and Malaysia

Epidemiology

Sornmani, S.; et al., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 365-374
Schistosoma japonica, extensive epidemiologic survey of endemic area of Khong Island, lower Mekong Basin, Southern Laos

Epidemiology

Southgate, B. A., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (2), 172-178
human filariasis, field trial of counting-chamber technique for determination of microfilarial rates and densities, applicable for epidemiologic surveys

Epidemiology

Southgate, B. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 177-186
human bancroftian filariasis, simultaneous trials using 4 known field techniques to diagnose microfilaremia in order to obtain comparative epidemiologic profiles: Fiji

Epidemiology

Spencer, H. C., jr.; et al., 1976, Am. J. Epidemiol., v. 104 (1), 93-99
Entamoeba histolytica, human, endemic area, parasitologic, serologic, and epidemiologic studies, association of infection with crowding and poor sanitation, probable unimportance of water as mode of transmission in this setting, and usefulness of indirect hemagglutination test as an epidemiologic tool: Arkansas

Epidemiology

Spencer, H. C.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 628-635

Entamoeba histolytica, epidemiologic statistics of endemic amebiasis in an extended family, two cousins of which had hepatic abscesses, random survey of remainder of community showed little evidence of infection, transmission among extended family members thought to be person to person: Bloomington, Texas and Florida

Epidemiology

Sri Oemijati, 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 144-148

Schistosoma japonicum, statistical review of prevalence and distribution of human schistosomiasis in Indonesia

Epidemiology

Steck, E. A., 1974, Progr. Drug Research, v. 18, 289-351

Leishmania spp., extensive review (history, etiology, pathology, epidemiology, immunology, cultivation, biochemistry, chemotherapy)

Epidemiology

Straka, S.; et al., 1977, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 26 (1), 52-60

tapeworms, human, epidemiological analysis, geographical distribution, sex, age, social structure, occupation and clinical symptoms; transmission by raw meat, efficacy of anthelmintics: Slovak Socialist Republic

Epidemiology

Svartman, M.; et al., 1972, Lancet, London (7744), v. 1, 249-251

Sarcoptes scabiei in man and possibly also dogs implicated in large epidemic of acute glomerulonephritis, scabetic lesions containing beta-hemolytic streptococci were found in large numbers of both the sick and well population of a small village in Trinidad

Epidemiology

Szabo, T., 1974, Mount Sinai J. Med., v. 41 (6), 765-773

human Toxoplasma gondii, current status in the United States, clinical review (pathology, transmission, epidemiology, diagnosis, prophylaxis, temporal variations)

Epidemiology

Tadros, W.; and Laarman, J. J., 1977, Trop. and Geogr. Med., v. 29 (3), 315 [Abstract]

epidemiology and epizootiology of Sarcocystis and related cyst-forming coccidia

Epidemiology

Tagil'tsev, A. A., 1970, Parazitologiya, Leningrad, v. 4 (3), 283-287

classification of arthropod parasites of bats according to life style, epidemiological implications: USSR

Epidemiology

Tang, C. C.; and Tang, C. T., 1977, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 23 (3), 267-282

Eurytrema coelomaticum, E. pancreaticum, incidence in cattle and sheep, epidemiology, life history, development in intermediate and experimental hosts: Fu-jian, South China

Epidemiology

Tanowitz, H. B., 1974, Med. Aspects Human Sexual., v. 8 (9), 45-65

human parasitic gynecologic diseases, clinical aspects, epidemiology, sexual transmission, review

Epidemiology

Tchoulamjan, A.; et al., 1977, Prensa Med. Argent., v. 64 (5), 125-138

schistosomiasis, epidemiologic survey of skin-test positive persons in non-endemic area to assess possible infection spread resulting from hydroelectric dam construction projects in neighboring endemic areas: Misiones, Argentine Republic

Epidemiology

Teesdale, C. H.; and Amin, M. A., 1976, Bull. World Health Organ., v. 54 (6), 703-705

Schistosoma mansoni in humans, fecal examination technique using thick glass cover-slips, useful in diagnostic epidemiologic surveys, compares favorably with standard Kato and Miura method

Epidemiology

Terragna, A., 1975, Paediatrician, v. 4 (2-3), 138-154

Toxoplasma gondii in children, present perspectives, extensive review (biology, epidemiology, life cycle, clinical aspects, diagnosis, fine structure, therapy)

Epidemiology

Thaver, S.; and Draper, C. C., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 8 [Demonstration]

P[lasmodium] falciparum, P. vivax and T[rypanosoma] cruzi antibodies tested for reliability of epidemiologic field survey collection methods, use of chromatography paper for collecting capillary blood recommended

Epidemiology

Theron, A.; Pointier, J. P.; and Combes, C., 1977, Ann. Parasitol., v. 52 (4), 421-433

Schistosoma mansoni, factors affecting cercarial concentration (rhythm of presence) in sites of transmission: rhythm of emission, numbers of Biomphalaria glabrata parasitized, temperature, rate of current: Guadeloupe

Epidemiology

Thompson, R. C. A., 1976, Austral. Vet. J., v. 52 (11), 543-544 [Letter]

Echinococcus granulosus, equine, danger of introducing a new strain, possible establishment in domestic and/or wild animal cycles, potential public health danger: Australia

- Epidemiology**
Thompson, R. C. A.; and Smyth, J. D., 1975, *Vet. Parasitol.*, v. 1 (2), 107-127
epidemic proportions of equine hydatidosis, evidence indicates that hunting dogs are major definitive host for equine "strain" of *Echinococcus granulosus* and that they acquire infection by being fed raw uninspected horse flesh and offal, potential public health implications: Great Britain
- Epidemiology**
Tizard, I. R.; Carrington, M.; and Lai, C. H., 1977, *Canad. Vet. J.*, v. 18 (10), 274-277
Toxoplasma gondii, goats, prevalence of anti-*Toxoplasma* antibodies, Sabin-Feldman dye test, no significant clinical problem in goats surveyed, epidemiological aspects discussed, public health hazard in relation to goat's milk: southern Ontario
- Epidemiology**
Tizard, I. R.; Chauhan, S. S.; and Lai, C. H., 1977, *J. Hyg.*, Cambridge, v. 78 (2), 275-282
Toxoplasma gondii, epidemiologic survey, prevalence of antibodies in human serum, inverse relationship between urban size and infection prevalence: Province of Ontario, Canada
- Epidemiology**
Tizard, I. R.; Fish, N. A.; and Quinn, J. P., 1976, *J. Hyg.*, Cambridge, v. 77 (1), 11-21
extensive survey of human serum for presence of antibodies to *Toxoplasma gondii* and observations on probable epidemiology: Canada
- Epidemiology**
Toth, G.; Paldy, L.; and Streitman, K., 1974, *Orvosi Hetilap*, v. 115 (3), 149-151
Pneumocystis carinii, human interstitial plasma cell pneumonia, inadequate sterilization of water in oxygen vaporizers as cause of disease spread in hospital settings: Hungary
- Epidemiology**
Townsend, G., 1966, *Bol. Chileno Parasitol.*, v. 21 (3), 77-82
human *Echinococcus granulosus*, epidemiologic survey of Santiago Province, Chile
- Epidemiology**
Tr. Roy. Soc. Trop. Med. and Hyg., 1976, v. 70 (2), 114-129
African and South American trypanosomiasis, 16th seminar on current status (epidemiology, chemotherapy, immunological research and problems of immunization, infection in domestic animals, vector control)
- Epidemiology**
Tribouley, J.; et al., 1976, *Bull. World Health Organ.*, v. 54 (6), 695-702
Schistosoma mansoni in humans, passive hemagglutination test of high specificity and sensitivity in comparison trials with complement fixation test, useful in epidemiologic surveys
- Epidemiology**
Tribouley, J.; Tribouley-Duret, J.; and Tlem-sani, A., 1974, *Medecine et Malad. Infect.*, v. 4 (1), 43-50
passive hemagglutination test technique for diagnosis of human echinococcosis, suitable for epidemiologic tool, favorable comparison with complement fixation test
- Epidemiology**
Upatham, E. S., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (2), 235-236
Schistosoma mansoni cercariae, infectivity in relation to stream velocity and distance from entry point including positions immediately above and in slow-flowing pools, epidemiological implications: St. Lucia
- Epidemiology**
Upatham, E. S., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (3), 343-352
Schistosoma mansoni cercariae, dispersion in natural standing and running waters determined by cercaria counts and mouse exposure: St. Lucia
- Epidemiology**
Upatham, E. S.; Sturrock, R. F.; and Cook, J. A., 1976, *Parasitology*, v. 73 (3), 253-264
Schistosoma mansoni, human, simple standardized hatching test used to estimate egg hatching rate in relation to host age, sex, and intensity of infection, implications for epidemiology and for use in assessing drug efficacy: St. Lucia, West Indies
- Epidemiology**
Utterback, W. W.; et al., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 3-11
Anaplasma marginale, cattle, prevalence with respect to breed, sex, age, management practices, and ecologic factors: Northern California
- Epidemiology**
Vankos, J.; and Reffy, F., 1976, *Orvosi Hetilap*, v. 117 (23), 1403-1405
increasing incidence of human scabies, most prevalent in winter months, epidemiology and 10-year statistical records of the Clinic for Dermatologic and Venereal Diseases: Budapest
- Epidemiology**
Varma, S.; Malik, P. D.; and Lal, S. S., 1976, *Vet. Rec.*, v. 99 (13), 256
Balantidium coli, consumption of *Ascarops strongylina* eggs observed during routine fecal examination, pig; possible role in epidemiology of *A. strongylina*
- Epidemiology**
Vashishta, M. S.; and Singh, R. P., 1977, *Livestock Advis.*, v. 2 (7), 35-38
Haemonchus epidemicus in sheep and goats, banminth-II, fenbendazole, helmatac, thibenzole, good results; development of geophagia in survivals or treated groups: Haryana

- Epidemiology
Vaughn, H. W.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 136-137
Anaplasma marginale, cattle, prevalence and distribution: northern Idaho and south-eastern Washington
- Epidemiology
Velasco Castrejon, O.; et al., 1970, Prensa Med. Mexicana, v. 35 (11-12), 438-440
Trypanosoma cruzi infection in 8-year old child, probable vector established as Triatoma barberi, epidemiologic study: Jalisco, Mexico
- Epidemiology
Viens, P.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 136-139
human toxoplasmosis, seroepidemiologic survey of 4,136 pregnant women for latent infection and their offspring for congenital infection, statistics of survey: Montreal, Quebec, Canada
- Epidemiology
Vilimszky, Z., 1971, Parasitol. Hungar., v. 4, 65-71
human taeniasis, epidemiologic survey covering 1961-1970, suggested control measures: County Borsod, Hungary
- Epidemiology
Vinayak, V. K.; Singh, T.; and Naik, S. R., 1977, Indian J. Med. Research, v. 66 (5), 737-744
human ancylostomiasis, intradermal skin test using Ancylostoma duodenale larval antigen, useful and rapid screening method for epidemiologic surveys, also recommended as adjunct to fecal examination in individual case diagnosis
- Epidemiology
Viranuvatti, V.; and Stitnimankarn, T., 1972, Progr. Liver Diseases, v. 4, 537-547
liver fluke infections and infestations, review of epidemiology, pathology, clinical manifestations, treatment and control of human infections in Southeast Asia
- Epidemiology
Vlasoff, A., 1976, N. Zealand J. Exper. Agric., v. 4 (3), 281-284
trichostrongyle larvae on pasture, seasonal incidence, residual pasture infestation more important than ewes as source of infection for lambs in spring, autumn infections acquired from eggs passed by lambs themselves: New Zealand
- Epidemiology
Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 403-411
Toxoplasma gondii, sheep muscular tissue, incidence correlated with dye test titres and haemoglobin type (higher in type B than A or AB), possible genetic influence on infection, epidemiology, meat inspection: southern Norway
- Epidemiology
Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 432-440
Toxoplasma gondii, prevalence in lambs, comparison with ewes, variations in epidemiological patterns, no significant differences in geographical distribution: southern Norway
- Epidemiology
Waldeland, H., 1977, Acta Vet. Scand., v. 18 (1), 91-97
Toxoplasma gondii, sheep flocks, reproductive loss in specific age groups, apparently no transmission between sheep, probably transmitted by silage
- Epidemiology
Waldeland, H., 1977, Acta Vet. Scand., v. 18 (2), 227-236
Toxoplasma, four breeding flocks of sheep, long-term (3-6 years) epidemiological studies, abnormal reproductive performance, increased prevalence with age, higher incidence in lowland pastures than in mountain pastures, lower incidence in summer than in winter: Norway
- Epidemiology
Wallace, G. D., 1976, Am. J. Trop. Med. and Hyg., v. 25 (1), 48-53
Toxoplasma gondii, human, prevalence of dye-test antibody in relation to host age and ethnic group, generally high except for people of Japanese ancestry living in Hawaii and for aborigines and ethnic Chinese living in Taiwan: Pacific Islands
- Epidemiology
Ward, R. A., 1977, Proc. 15. Internat. Cong. Entom. (Washington, D.C., Aug. 19-27, 1976), 523-529
malaria, factors of human ecology that influence recent epidemiological changes
- Epidemiology
Ward, R. D., 1977, Proc. 15. Internat. Cong. Entom. (Washington, D.C., Aug. 19-27, 1976), 505-522
New World leishmaniasis, incidence, factors causing epidemiological changes in last 3 decades
- Epidemiology
Warren, K. S.; and Mahmoud, A. A. F., 1976, J. Infect. Dis., v. 133 (2), 240-243
Trichuris trichiura, epidemiologic, clinical and diagnostic review of human trichuriasis
- Epidemiology
Warren, K. S.; and Mahmoud, A. A. F., 1977, J. Infect. Dis., v. 135 (4), 692-696
algorithms in the diagnosis and management of human liver, intestinal and lung flukes

- Epidemiology
Warren, M.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (1), 20-25
Plasmodium falciparum, human, localized epidemics, serologic assessment with indirect fluorescent antibody method provides valuable information but must be interpreted in association with other known epidemiologic factors: El Salvador; Panama
- Epidemiology
Warren, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 607-611
differences in susceptibility to Plasmodium vivax and P. falciparum of inbred morphologic phenotypes of Anopheles albimanus vector mosquitoes, significance in epidemiologic surveys and development of vector control measures: El Salvador
- Epidemiology
Webber, R. H., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 537-538 [Letter]
human microfilaria, comparison of use of counting chamber and measured blood films for epidemiologic estimations, survey of Wuchereria bancrofti-endemic area in the Solomon Islands
- Epidemiology
Wegener, J.; and Gathuma, J. M., 1975, Tropenmed. u. Parasitol., v. 26 (1), 43-47
Echinococcus granulosus, marabou storks (Leptoptilos crumeniferus) feeding in vicinity of slaughterhouses on offal infected by hydatid cysts, no evidence to implicate as transport hosts in Kenya; high acidity in digestive tract may destroy cysts; suggested that storks lower incidence in humans
- Epidemiology
Weinstock, H.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, part 1), 1148-1152
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- Epidemiology
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helminths, postcycle parasitism, biological significance, definition, brief theoretical review
- Evolution
Brinkmann, A., jr., 1975, Medd. Grønland, v. 205 (2), 1-88
Hexabothriidae, comparative anatomy of vaginae, morphology of eggs, phylogenetic significance
- Evolution
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plagiorchioid trematodes of anurans with special emphasis on species of Glypthelmins, implications of morphological cladistic interrelationships and zoogeography, evolutionary history involving parasite vicariance and dispersal as a result of host speciation and host dispersal
- Evolution
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Dipetalonema lineage, definition and limits of the line, morphological development, hypotheses on evolution, key to genera and subgenera
- Evolution
Chabaud, A. G.; and Krishnasamy, M., [1976], Ann. Parasitol., v. 50 (6), 1975, 813-820
Trichospirura, should be placed in Rhabdochoniidae, evolutionary position, host range, osmoexcretory apparatus, relations between Rhabdochoniidae and Cystidicolidae
- Evolution
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argument that genetic interactions between parasites and their hosts have played important perhaps even dominant role in maintaining protein polymorphisms, 3 hypotheses with supporting evidence, mathematical models of specific and general host resistance, consequences for evolutionary theory, symposium presentation
- Evolution
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- Evolution
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Brevistriatinae, redefinition based on evolution of important characteristics (orientation of ridges, carene development, number and segmentation of crests), good correlation between morphological characters and distribution of species among hosts and geographical regions
- Evolution
Durette-Desset, M.-C.; and Chabaud, A.-G., 1975, Ann. Parasitol., v. 50 (3), 303-337
Trichostrongyloidea of Chiroptera, evolutionary relationships

- Evolution
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- Evolution
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Phloptoridae, Strigiphilinae, generic diagnosis redefined, species group "Craspedorhynchus species of Aquilini" defined for first time, phylogenetic scheme, differential diagnosis of *C. fraterculus* n. sp., *C. aquilinus*, *C. naevius*, *C. macrocephalus*
- Evolution
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Caulobothrium longicolle, *Phyllobothrium gracile*, embryogenesis of two species compared, phylogenetic implications
- Evolution
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Myobiidae, specificity and parallel host-parasite evolution
- Evolution
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halarachnid mites, phylogenetic implications of comparative ontogeny of leg and palpal chaetotaxy
- Evolution
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- Evolution
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Plagiorchiata, abbreviation of life cycles, evolutionary tendencies, review
- Evolution
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- Evolution
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- Evolution
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major evolutionary trends in animal protists
- Evolution
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- Evolution
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several protostomes (including *Ascaris lumbricoides* and *Fasciola hepatica*), ribosomal RNA's, thermal stability and molecular integrity, evolutionary implications
- Evolution
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Kinetoplastida, kinetoplast genetic system, implications for concept of cell differentiation and phylogeny, relationship to phenotype of these flagellates
- Evolution
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phylogeny and ontogeny of man-helminth-animal relationships
- Evolution
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review of evolutionary relationships of bird and mammal ectoparasites and their hosts, resource tracking patterns of parasites through evolutionary time, selective pressure from hosts, host-transfers through time, discordances of parasite and host taxonomy in relation to parasite's ecological needs on host topography; particular discussion of Syringophilinae with mathematical analysis of host and parasite taxonomy
- Evolution
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- Evolution
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Gastrocotylinae
- Evolution
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caryophyllid cestodes, zoogeographical distribution, pattern raises questions of possible co-evolution of host and parasite

Evolution

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Nematoda, taxonomic position among pseudo-coelomate bilateria, should be considered as independent phylum, proposed classification of higher taxa

Evolution

- Maier, W. A., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 151-179
arthropod vectors of human parasites, pathology, defence, evolution of cycles and parasite-vector relationships, extensive theoretical review

Evolution

- Moser, M., 1977, *Internat. J. Parasitol.*, v. 7 (5), 389-391
myxosporidan spores, size determined by parasite's development in host tissues vs. organ cavities, shape determined by presence of physiologically and behaviorally suitable host fish, constancy of spore size and shape a result of little selective pressure to change

Evolution

- Mrciak, M.; and Rosicky, B., 1975, *Biologia, Bratislava, s. B, Zool.*, v. 30 (8), 589-597
parasites of small mammals and birds in high altitude areas, geographical distribution in relation to altitude, geological history, and host distribution, adaptations to alpine conditions including life history adaptations, review: High Tatra Mountains, Slovakia

Evolution

- Niewiadomska, K., 1975, *Kosmos, Warsaw, s. A, Biol.* (135), v. 24 (4), 349-363
Digenea, reproduction regarded as elongation of ontogeny or alteration of generations, asexual and sexual reproduction and parthenogenesis in life cycles, extensive theoretical review

Evolution

- Peterson, P. C., 1975, *Misc. Publication Entom. Soc. Am.*, v. 9 (5), 237-242
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Evolution

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evolutionary aspects of distribution of Ascaridoidea in mammals

Evolution

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polymerization and oligomerization phenomena in protozoan evolution

Evolution

- Polianskii, I. I.; and Raikov, I. B., 1977, *Zhurnal Obshch. Biol.*, v. 38 (3), 325-335
Protozoa, evolution, polymerization and oligomerization processes in nuclei and organelles, particularly ciliae, theoretical review

Evolution

- Protasova, E. N., 1976, *Zool. Zhurnal*, v. 55 (2), 205-214
Bothriocephalata, distribution by zoogeographical regions, predominance of marine species, geological history, probable origins

Evolution

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Spirura, evolution and distribution

Evolution

- Quentin, J. C.; and Seureau, C., 1975, *Ztschr. Parasitenk.*, v. 47 (1), 55-68
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Evolution

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species diversity of fish parasites in coral reef habitats, higher numbers of species of Monogenea per species of fish than in higher latitudes, theoretical discussion: Capricorn group of reefs, Great Barrier Reef

Evolution

- Sandon, H., 1976, *Tr. Am. Micr. Soc.*, v. 95 (3), 357-366
opalinids with special reference to Protoopalina, problems in specific identification, speculations about evolution

Evolution

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comparison of larval migration of 17 subulurid and spirurid nematodes in *Locusta migratoria* (exper.), course and duration of migration, histopathologic consequences, brief discussion of relation to phylogeny of nematodes and host hemocytic defense reaction

Evolution

- Szidat, L., 1965, *An. 2. Cong. Latino-Am. Zool.*, v. 2, 83-87
Cymothoidae, evolution of secondary sexual dimorphism, various types of life cycles; particular studies of *Meinertia gaudichaudi* in *Trachurus* sp. (cavidad bucal): costas chilenas

Evolution

- Taylor, F. J. R., 1976, *J. Protozool.*, v. 23 (1), 28-40
flagellate phylogeny in relation to ultrastructure of 4 organellar systems

- Evolution
Tendeiro, J., 1975, *Garcia de Orta, s. Zool.*, v. 4 (1), 57-69
Gonioididae from Columbiformes, generic diagnosis and phylogenetic position
- Evolution
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Polystomatidae, oncomiracidial morphology and evolutionary relationships
- Evolution
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Porocephalus crotali, cuticle, ultrastructure, function, phylogenetic implications (clearly pro-arthropodan, uniqueness supports status of independent phylum)
- Evolution
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convergent evolution of helmeted fleas
- Evolution
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analysis of altruistic behavior of *Dicrocoelium dendriticum* in ant host, mathematical model; theoretically possible for behavior to evolve even when parasites of one host are derived from as many as five different parents
- Excretory system, Parasites
Bennett, C. E., 1977, *Exper. Parasitol.*, v. 41 (1), 43-53
Fasciola hepatica during migration in mouse, development of parasite excretory and parenchymal systems
- Excretory system, Parasites
Combes, C.; and Triquell, A., 1972, *Bull. Soc. Neuchatel. Sc. Nat.*, v. 95, 113-120
Gorgoderina vitelliloba and *Gorgoderina euzetii miracidia* compared, arrangement of epidermal plates, sensillae and excretory pores; comparative outline of epidermal cell numbers of the Gorgoderidae
- Excretory system, Parasites
Demaree, R. S., jr.; and Wootton, D. M., 1975, *Proc. 33. Ann. Meet. Electron Microsc. Soc. America*, 656-657
Alaria sp., ultrastructure, particularly tegument, muscles and excretory bladder
- Excretory system, Parasites
Dougherty, R. M.; et al., 1975, *J. Parasitol.*, v. 61 (6), 1006-1015
Spirometra, *Diphyllobothrium*, *Ligula*, nature of particles lining excretory ducts, detailed morphological resemblance to C-type viruses but apparent lack of nucleic acids casts doubt on viral identity; different particles seen in Cyclophyllidea spp.
- Excretory system, Parasites
Gibson, D. I.; and Taylor, A. L., 1976, *Parasitology*, v. 73 (2), v [Abstract]
Ascaridoidea, excretory system, comment upon taxonomic significance and function
- Excretory system, Parasites
Hamdy, B. H., 1973, *J. Med. Entom.*, v. 10 (1), 53-57
Argas arboreus, excretory cycle, seasonal effects (excretory rhythm of 3rd instar nymphs, adult males, and adult females did not differ significantly, but quantities excreted in each season differed distinctly), guanine and hematin as major excretory products
- Excretory system, Parasites
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flame cell pattern of *Echinostomum malayanum* cercariae
- Excretory system, Parasites
Loverde, P. T., 1976, *Egypt. J. Bilharz.*, v. 3 (1), 65-67
Schistosoma haematobium cercariae, scanning electron microscopy of hinge region and excretory canal
- Excretory system, Parasites
Matskasi, I., 1972, *Parasitol. Hungar.*, v. 5, 39-42
Diplostomatidae metacercariae, evidence that "calcareous bodies" of secondary excretory system contain CaCO_3
- Excretory system, Parasites
Popiel, I., 1977, *Ztschr. Parasitenk.*, v. 51 (3), 249-260
Cercaria stunkardi cercaria and metacercaria, ultrastructure of excretory bladder
- Excretory system, Parasites
Rees, F. G., 1977, *Proc. Roy. Soc., London, s. B* (1121), v. 195, 425-452
Cryptocotyle lingua cercariae, development, morphology and ultrastructure of tail and excretory system; mechanism of tail loss
- Excretory system, Parasites
Rybos, M.; Lestan, P.; and Dubinsky, P., 1974, *Biologia, Bratislava, s. B, Zool.* (1), v. 29 (2), 129-132
Ascaridia galli, hydrocarbon metabolism excretory products, principally acetic acid in 23 day-old worms, propionic acid in mature worms
- Excretory system, Parasites
Swiderski, Z.; Euzet, L.; and Schoenenberger, N., 1975, *Cellule*, v. 71 (1), 5-18
Catenotaenia pusilla, *Hymenolepis diminuta*, *Inermicapsifer madagascariensis*, ultrastructure of nephridial systems
- Excretory system, Parasites
Wright, D. J.; and Newall, D. R., 1976, *Organ. Nematodes (Croll)*, 163-210
nematodes, nitrogen catabolism and excretory products, osmotic and ionic regulation, excretory structures, review

Excystation. See Cysts.

Exotic diseases. See Disease transmission, Travel and migration.

Exsheathment. See Ecdysis.

Eye

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Onchocerca volvulus, survey of total population 5 years old and over in 22 village groups using standardized techniques to assess eye and skin lesions, comparison with persons not infected with onchocerciasis: United Cameroon Republic

Eye

Anderson, J.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 209-222

Onchocerca volvulus, survey of total populations aged 5 years and older in 16 villages of rain-forest and savanna zones, standard techniques used to assess intensity of infection, clinical manifestations; differences thought to be influenced by hormonal factors, strain pathogenicity, transmission patterns: United Cameroon Republic

Eye

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Onchocerca volvulus, comparative pathologic study of posterior segment ocular lesions of infected villagers from savanna and rain-forest regions using fluorescein fundus angiography: Cameroon

Eye

Anderson, J.; Fuglsang, H.; and Marshall, T. F. de C., 1976, Tropenmed. u. Parasitol., v. 27 (3), 263-278

Onchocerca volvulus, human eye lesions, trials with diethylcarbamazine with and without added effects of corticosteroids (betamethazone), value of therapy varied with type of eye lesions: north Cameroon

Eye

Anderson, J.; Fuglsang, H.; and Marshall, T. F. de C., 1976, Tropenmed. u. Parasitol., v. 27 (3), 279-296

Onchocerca volvulus, human eye lesions, trials with suramin alone or followed by course of diethylcarbamazine, value of therapy varied with type of eye lesions, severe toxic reactions (2 fatalities) in some persons treated with suramin: north Cameroon

Eye

Anderson, J.; Fuglsang, H.; and Marshall, T. F. de C., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 362-373

Onchocerca volvulus, comparative follow-up epidemiologic study of infected villagers from savannah and rain-forest areas, relationships between development of eye lesions and high concentrations of microfilariae in skin, particularly around shoulders, as well as eye, implications for prevention of blindness: Cameroon

Eye

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human ocular toxoplasmosis, analysis of cases before and after treatment with pyrimethamine and sulfamethoxy-pyridazine (active cases also received prednisone): Chile

Eye

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Phthirus pubis infection of both eyelids of 5-year-old child, effective treatment using cryotherapy followed by topical application of gamma benzene hexachloride, clinical case report: Virginia

Eye

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Eye

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toxoplasmic retinochoroiditis in young child with presenting symptoms of strabismus, case report: Rotterdam

Eye

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Dirofilaria immitis, dog (anterior chamber of eye), surgical removal

Eye

Budden, F. H., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 484-491

Onchocerca volvulus, human ocular involvement, assessment of new eye lesions and progression of existing lesions 14-15 years after single course of suramin, comparison with control group shows slightly less deterioration in treated group and no latent effects of suramin therapy: Hawal Valley, Nigeria

- Eye
Coriglione, G.; Corso, P.; and Gorgone, G., 1969, *Minerva Oftal.*, v. 11 (3), 99-103
larva migrans of *Toxocara canis*, probable cause of macular chorioretinal granuloma in youth, case report, diagnostic problems: Italy
- Eye
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Cysticercus cellulosae of subconjunctival tissue, human, case report: India
- Eye
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toxoplasmic uveitis in humans, immunopathology studies suggest that ocular toxoplasmosis is generally congenital
- Eye
Diallo, J. S.; and Bassabi, S., 1973, *Medecine Afrique Noire*, v. 20 (11), 923-924
ocular complications resulting from human therapy with antiparasitics, review
- Eye
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filaria in vitreous of man's eye, worm not recovered but apparently died after diethylcarbamazine therapy, probable source of infection was pet dogs, 3 of which were infected with *Dirofilaria immitis*: Peninsular Malaysia
- Eye
Doehovski, M.; Kotevski, D.; and Konjanovski, D., 1970, *Makedon. Med. Pregl.*, v. 25 (1), 7-20
human congenital and acquired toxoplasmosis, clinical review, diagnosis, eye pathology
- Eye
Duhard, J. P.; and Pages, D., 1973, *Nouv. Presse Med.*, v. 2 (34), 2275-2276 [Letter]
toxoplasmosis in newborn infants, value of routine systematic ocular evaluations for possible infection
- Eye
Duke, B. O. L., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 90-91 [Letter]
Onchocerca volvulus in man, speculation that route of entry of microfilariae into eye is along sheaths of ciliary vessels and nerves: Cameroon
- Eye
Duke, B. O. L.; and Garner, A., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 435-448
Onchocerca volvulus, rabbits (exper.) pre-immunized with live or freeze-killed microfilariae and later challenged by subconjunctival inoculation of live microfilariae, severe ocular pathology resulted with live microfilariae, minimal reaction with killed; possible immunological bearing on human infection
- Eye
Duke, B. O. L.; and Garner, A., 1976, *Tropenmed. u. Parasitol.*, v. 27 (1), 3-17
pathologic changes in eyes of rabbits inoculated in posterior chamber with *Onchocerca volvulus microfilariae*, comparisons with normal controls
- Eye
Ecimovic, T. J., 1973, *Bull. Epizoot. Dis. Africa*, v. 21 (2), 129-131
Thelazia rhodesii, incidence, cattle, conjunctivitis parasitaria: Mbeya region of Tanzania
- Eye
El-Antably, S. A.; and El-Hoshy, M. H., 1975, *Bull. Ophth. Soc. Egypt*, v. 68, 275-280
human ascariasis, ancylostomiasis and schistosomiasis in association with soft cataracts, clinical aspects, possible relationships with nutritional deficiencies: Egypt
- Eye
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Demodex folliculorum, infestation of human eyelids and causative factor in blepharitis, clinical review, case report, application of ether or alcohol to cause evacuation of hair follicles by parasites: Australia
- Eye
Feigelson, J.; et al., 1976, *Pediatric*, v. 31 (1), 77-79
Hypoderma bovis, ocular myiasis in young child with resulting lens destruction and surgical removal, child also suffered from cystic fibrosis: France
- Eye
Fontan, R.; Beauchamp, F.; and Beaver, P. C., 1975, *Bull. Soc. Path. Exot.*, v. 68 (6), 566-573
Diphyllbothrium mansoni, larval plerocercoid excised from eye of human suffering from diffuse conjunctivitis, 6 months previously had treated chalazion with local application of eviscerated frog; human hydatid cyst of eye with presenting symptoms of unilateral exophthalmia, case report: Laos
- Eye
Franken, S., 1975, *Ophthalmologica*, Basel, v. 171 (1), 7-10
human *Taenia solium* with cysticercus identified in flow region of ophthalmic artery, 5 case reports, some patients gave history of eating undercooked pork, 2 were vegetarians: India
- Eye
Frechette, J.-L.; Marcoux, M.; and St.-Pierre, H., 1976, *Canad. Vet. J.*, v. 17 (4), 114
Thelazia lacrymalis in horses operated on for cataracts; *Thelazia* sp., keratoconjunctivitis in dairy cows: Quebec

- Eye
Frenney, L. C.; and Fox, H. C., 1974, *Med. J. Australia*, v. 1 (9), 310-311
human bilateral external ophthalmomyiasis caused by *Oestrus ovis*, first reported case in Queensland, Australia
- Eye
Frentzel-Beyme, R., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 339-357
Onchocerca volvulus, human, epidemiological survey, parasitological and clinical findings, age and sex specific prevalence rates, relation to rate of blindness: Bong Range, Liberia
- Eye
Frentzel-Beyme, R. R., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 469-488
Onchocerca volvulus, epidemiologic survey of inhabitants of 121 communities over 3-year period for incidence and risk of blindness associated with onchocerciasis infection, importance as public health problem, results show 50% increased risk associated with exposure to parasites: Liberia
- Eye
Frezza, R.; et al., 1974, *Ophthalmologica, Basel*, v. 169 (5), 321-325
severe bilateral toxoplasmic uveitis in 15-year-old girl resulting in unilateral enucleation and severe vision impairment, first diagnosed at age 3 as congenital toxoplasmosis, clinical case report: Italy
- Eye
Fuglsang, H.; and Anderson, J., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 63-67
Onchocerca volvulus in humans, incidence survey using corneal punch-microtiter plate quantitative skin snip technique, concentration of microfilariae in skin near eye used as simple measure of severity of infection and indicator of people at risk in developing eye pathology: Cameroon
- Eye
Fuglsang, H.; Anderson, J.; and Marshall, T. F. de C., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 355-364
Onchocerca volvulus in humans, comparative survey of natives of rain-forest and savannah areas for presence of head nodules containing adult worms, possible associations between presence of nodules and ocular onchocerciasis: Cameroon
- Eye
Garcia-Valdecasas Soler, R., 1972, *Medicamenta, Madrid* (505), an. 30, v. 60, 363-367
2 case reports of human ocular myiasis caused by *Oestrus ovis* with review of clinical aspects: Seville
- Eye
Garin, J.-P.; Rougier, J.; and Mojon, M., 1975, *Acta Trop.*, v. 32 (4), 384-388
Loa loa, human (40 year old missionary), case report, severe ocular manifestations, eventual cure with diethylcarbamazine: Italy (had lived 5 years in Cameroon)
- Eye
Garner, A., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 374-377
Onchocerca volvulus, pathology of ocular infections in humans and experimental rabbits, granulomatous lesions resulting from direct microfilarial invasion and inflammatory lesions a probable response to free microfilarial antigens, review of current research
- Eye
Garner, A.; and Duke, B. O. L., 1976, *Tropenmed. u. Parasitol.*, v. 27 (1), 19-29
Onchocerca volvulus, rabbits, fundus lesions following inoculation of microfilariae into posterior segment of eye
- Eye
Garner, A.; Duke, B. O. L.; and Anderson, J., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 385-396
Onchocerca volvulus, rabbits, comparison of lesions produced in cornea of eye by microfilariae of forest vs. Sudan-savanna strains from Cameroon, observations confirm greater pathogenicity of Sudan-savanna strain
- Eye
Gass, J. D. M.; and Lewis, R. A., 1976, *Arch. Ophth.*, Chicago, v. 94 (9), 1500-1505
human ophthalmomyiasis interna with resulting subretinal tracks, case reports of probable infestations without residual damage
- Eye
Guerrant, R. L.; et al., 1976, *Arch. Int. Med.*, Chicago, v. 136 (7), 811-813
tickborne oculoglandular tularemia, case report of woman who accidentally contaminated eye with blood while removing engorged tick from her leg: rural Virginia
- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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Toxoplasma gondii, indirect fluorescent antibody technique and Sabin-Feldman dye test compared for diagnosis in patients with eye diseases: Turkey

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Eye

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- Eye
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- Eye
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probable Toxocara endophthalmitis in child with white fundus mass in right eye, differential diagnosis from retinoblastoma on basis of increased eosinophilia and normal lactate dehydrogenase levels in aqueous aspiration, conservative treatment resulted in resolution of eye mass: Philadelphia, Pennsylvania
- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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- Eye
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Eye

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Loa loa, atypical ocular manifestations in human filariasis, clinical aspects, case reports: Gabon

Eye

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youth with sub-acute bilateral edematous papillitis associated with anodular onchocerciasis, macrofilarial treatment with suramin, followed by diethylcarbamazine resulted in degenerative chorioretinopathy probably caused by diethylcarbamazine treatment: Tchad

Eye

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human onchocerciasis infection of retina resulting in white degenerating intra-retinal spots, only young people affected, no functional impairment

Eye

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Cysticercus cellulosae causing encysted abscess with ocular retraction syndrome, eye of 7-year-old girl: Bolivia

Eye

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Coenurus glomeratus excised from anterior chamber of eye of 15-year-old boy, clinical case report: Egypt

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Eye

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Eye

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Fasting. See Diet.

Fats. See Lipids.

Fatty acids. See Lipids.

Fecal examination. See Technique, Fecal examination.

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Feeding. [See also Phagocytosis]

Feeding

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Feeding

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Feeding

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Haemaphysalis wellingtoni, life cycle, reproduction, direct correlation between amount of blood ingested by females and number of eggs laid by them

Feeding

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Feeding

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Schistosoma mansoni schistosomules, in vitro development of digestive tract, ultrastructure of esophagus, esophageal gland, and cecum; ingestion of red blood cells stimulates 'dense granule' synthesis and increased growth of cecal region

Feeding

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Hyalophysa chattoni, fine structure of organelles concerned with ingestion of exuvial fluid by trophont

Feeding

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Terebrospira, fine structure of feeding stage in *Palaemonetes pugio*

Feeding

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Feeding

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nutrition of nematodes

Feeding

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Haemaphysalis spinigera, cement substance at site of attachment and feeding, derived from salivary glands, histochemical study

Feeding

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larval nematodes, behavior, review (nematode senses, locomotion, movement patterns as tracked on agar, mechanisms of orientation)

Feeding

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behavioral analysis of nematode movement, extensive review

Feeding

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Boophilus microplus, characterization of prostaglandin, active component in saliva, probable role in establishing feeding lesion

Feeding

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Nippostrongylus brasiliensis in fed vs. fasted rats, 10 vs. 15 day old infections, activity rates, postures, and temporal movement patterns observed in vivo, differences correlated with feeding regime of host and could thus lead to habitat selection

Feeding

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Ornithodoros gurneyi, rats (exper.), regulation of circadian rhythms controlling time of detachment of engorged larvae and nymphs, relevance to tick ecology

Feeding

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Selenidioides sp., function of anterior complex of merozoites (conoid, rhoptries, micronemes, subpellicular microtubules) in feeding and other activities, electron microscopy

Feeding

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Babesia equi, feeding mechanism, organelles involved with ingestion of nutrients (cytostome for taking in hemoglobin and previously undescribed tubule which appears to in-

- Feeding**
Fujisaki, K.; Kitaoka, S.; and Morii, T., 1976, National Inst. Animal Health Quart., v. 16 (3), 122-128
comparative observations, feeding, molting, oviposition and hatching, ixodid ticks, laboratory cultural conditions
- Feeding**
Gabbay, S.; and Warburg, M. R., 1976, J. Insect Physiol., v. 22 (9), 1291-1301
Ornithodoros tholozani, appearance of neurosecretory cells as related to feeding, blood digestion, mating, and oogenesis
- Feeding**
Guillot, F. S.; et al., 1977, Ann. Entom. Soc. Am., v. 70 (4), 588-590
Cochliomyia hominivorax, feeding behavior and reproductive status of females attracted to a host, relationship to mating and ovarian development
- Feeding**
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Hyalomma (H.) dromedarii, H. (H.) anatolicum excavatum, premolting nymphs, engorged and ovipositing females, total lipid fatty acids and free fatty acid fractions of hemolymph and gut and molting fluids, changes in relation to feeding, molting, and oviposition
- Feeding**
Halton, D. W., 1976, Parasitology, v. 73 (2), xxi-xxii [Abstract]
Calicotyle kroyeri vs. Diclidophora merlangi, examination of 3 organ systems with respect to nutrition, diet, feeding mechanism (foregut, gut caeca, tegument)
- Feeding**
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- Feeding**
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Boophilus microplus, prostaglandins in saliva, role in feeding mechanisms
- Feeding**
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nutrition of marine Digenea in primary molluscan host
- Feeding**
Kan, S. P., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (3), 351-358
Tanqua tiara, ultrastructure of intestinal epithelium, presence of polymorphic inclusion bodies possibly associated with parasite's mode of feeding: Singapore
- Feeding**
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- Feeding**
Kaufman, W. R.; Diehl, P. A.; and Aeschlimann, A. A., 1976, Experientia, v. 32 (8), 986-987
Amblyomma hebraeum, increased Na, K-ATPase activity in salivary glands of feeding females, no activity changes in feeding males
- Feeding**
Khalil, G. M., 1976, Exper. Parasitol., v. 40 (2), 232-237
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- Feeding**
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tick larvae, nymphs, accumulating process, concentration ratios, ingested blood meals
- Feeding**
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Babesia microti vs. Plasmodium lophurae, feeding mechanisms of parasites freed of host erythrocytes, ferritin uptake of in vitro culture system
- Feeding**
Langreth, S. G.; and Trager, W., 1973, J. Protozool., v. 20 (5), 606-613
Plasmodium lophurae, extracellular development in vitro, light and electron microscopy, incorporation of methionine or proline, observation of abnormalities which may indicate limits of extracellular cultivation in vitro (loss of host-derived outer parasite membrane and apparent reduction in feeding activity via food vacuoles)
- Feeding**
Langreth, S. G.; and Trager, W., 1975, J. Protozool., v. 22 (3), 23A [Abstract]
Babesia microti, Plasmodium lophurae, comparison of feeding mechanisms
- Feeding**
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Dermacentor variabilis, D. andersoni, females, structure of glands associated with foveae dorsales, histology and scanning electron microscopy, changes during feeding, possible role in sex pheromone activity
- Feeding**
Leahy, (Sr.) M. G.; et al., 1975, J. Med. Entom., v. 12 (4), 413-414
assembly pheromones from Ornithodoros and Argas species, interspecific responses; feeding increased pheromone production and decreased response; possible function in host location

Feeding

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Rhipicephalus appendiculatus, attraction of male to female ticks in relation to feeding, results suggest possible existence of female sex pheromone

Feeding

Londono M., I., 1976, J. Parasitol., v. 62 (4), 589-595

Dipetalonema viteae larvae, distribution and migration in *Ornithodoros tartakowskyi*, as cause of injury to and disorganization of tick muscle fibers, failure of some ticks to feed after biting may protect from fatal hyperinfection

Feeding

Londono M., I., 1976, J. Parasitol., v. 62 (4), 596-603

number and proportion of infective *Dipetalonema viteae* larvae moving from biting *Ornithodoros tartakowskyi* to *Meriones unguiculatus*, possible factors involved in this migration

Feeding

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Entamoeba histolytica, endocytosis and digestion by trophozoites, electron microscopy

Feeding

Machel, M.; and Krynski, S., 1976, Ztschr. Ang. Zool., v. 63 (3), 299-305

lice maintained in laboratory since 1918, constant conditions for 30 years, comparison with 30 years earlier: larval stage shortened, temperature range for development reduced, body weight and amount of blood taken increased

Feeding

Meyer, H.; and de Souza, W., 1973, J. Protozool., v. 20 (5), 590-593

Trypanosoma cruzi cultured in pigment epithelial cells of iris from chick embryo, fine structure, observations suggest uptake of melanin granules through cytotomes by process of intracellular phagotrophy

Feeding

Mishra, G. C.; and Dev, B., 1976, Ztschr. Parasitenk., v. 50 (1), 43-51

Poecilobdella granulosa, localization of acetylcholinesterase and butyrylcholinesterase in salivary glands; roles of these and other enzymes in biting

Feeding

Moorhouse, D. E., 1975, Ztschr. Parasitenk., v. 48 (1), 65-71

Argas persicus, larvae, feeding on chickens, histological studies, penetration by lysis, foreign body reaction, whole blood as diet throughout feeding, emigration of heterophils to surround mouthparts and mask them against foreign body reaction, example of adaptation tolerance; immunological response to salivary secretions not suppressed

Feeding

Mueller, B. E. G., 1975, Ztschr. Parasitenk., v. 47 (1), 23-34

Eimeria contorta, asexual development from sporozoite to first-generation merozoite in tissue culture, possible feeding function of some structures, electron microscopy

Feeding

Norval, R. A. I., 1975, J. Parasitol., v. 61 (4), 737-742

Amblyomma marmoreum, ecology: habitat preference, seasonal activity, seasonal occurrence on hosts, life cycle in laboratory correlated with field observations, temperature dependence of feeding time, effects of host seasonal behavior: Paardekraal Farm, Kowie River Valley, 15 km SE of Grahamstown, Eastern Cape Province, South Africa

Feeding

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- Feeding
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Freezing. [See also Technique, Specimen preparation and preservation; Temperature]

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- Freezing
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- Freezing
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Freezing

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Freezing

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Freezing

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Freezing

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Freezing

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Babesia canis, maintenance in laboratory for antigen production, infected canine blood at 6°C in ACD solution, method more advantageous than deep freezing technique

Freezing

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Freezing

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Freezing

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Freezing

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Trichomonas vaginalis, prolonged preservation by freezing, comparative study of protective effects of glycerol, ethylene glycol and DMSO

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Babesia major derived from *Haemaphysalis punctata* nymphs, cryopreservation, subsequent infectivity for cattle

Freezing

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Brugia pahangi microfilariae, technique for freezing and storing, subsequent development in mosquito host and final development in vertebrate host

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- Freezing
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- Freezing
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- Freezing
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- Freezing
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French Guiana

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Fungi

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Schistosoma haematobium, human, mixed infections with fatal cryptococcal granuloma (toruloma) of central nervous system: Nigeria

Fungi

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Fungi

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Fungi

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Fungi

Borowski, J.; et al., 1970, *Med. Dosw. i Mikrobiol.*, v. 22 (1), 83-89

Trichomonas vaginalis, mice (exper.), in mixed infection with *Candida albicans* fungus cells increased and *Trichomonas* cells decreased but became predominant infection in spleen or liver

Fungi

Bwangamoi, O., 1972, *Bull. Epizoot. Dis. Africa*, v. 20 (3), 211-220

ringworm (*Trichophyton equinum*) of horses, concurrent heavy infestation with *Boophilus decoloratus* and one case of *Besnoitia benetti*, case reports; Uasin Gishu Skin Disease is a misleading name and should be abandoned because it refers to clinical syndrome produced by different causal organisms: Kahawa, Kenya

Fungi

de Carneri, I.; and Di Re, F., 1972, *Parasitologia*, v. 14 (2-3), 267-268

Trichomonas vaginalis, human, frequency, negative correlation with frequency of moniliasis, significance in control: Sesto San Giovanni (Milano)

Fungi

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Fungi

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Fungi

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Mycoptes musculus discovered in laboratory mice, possible role of mites in spread of dermatophytosis

Fungi

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mice infected with *Toxoplasma gondii* or *Besnoitia jellisoni*, significant resistance to mixed infections with nocardiosis, possible cell-mediated immunity

Fungi

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Dicrocoelium dendriticum-infected *Formica pratensis*, ant behavioral changes similar to those caused by infection with fungus, *Entomophthora*; necessity for differentiating causes of behavioral changes in studies of ants as intermediate hosts

Fungi

Marchal, M., 1976, *Compt. Rend. Soc. Biol., Paris*, v. 170 (2), 295-299

Pseudomonocystis sp.-infected *Melolontha melolontha*, increased susceptibility to exper. infection with low or medium doses of spores of *Beauveria brongniartii*

Fungi

Meyer, E. A., 1976, *Exper. Parasitol.*, v. 39 (1), 101-105

Giardia lamblia, methods used to establish trophozoites in presence of intestinal fungi, to separate the protozoa from the fungi, and to culture it axenically for more than a year

Fungi

Reinhardt, D. J.; Kaplan, W.; and Chandler, F. W., 1977, *Am. Rev. Resp. Dis.*, v. 115 (1), 170-172

Pneumocystis carinii, cyst forms morphologically similar to zygomycete spores, direct fluorescent antibody technique helpful in differentiating from fungus

Fungi

Spier, S.; et al., 1977, Arch. Dermat., Chicago, v. 113 (8), 1104-1105

human cutaneous leishmaniasis, differential diagnosis from sporotrichosis, clinical case report, resolution of ulcer after pentostam therapy: Panama

Fungi

Stankiewicz, M., 1969, Acta Parasitol. Polon., v. 17 (1-19), 39-46

Strongyloides papillosus larvae, sheep and rabbit strains, responses to light of various intensities, desiccation and temperature; pattern of migration from water by dense group of larvae; reaction to various chemicals; destruction by fungi; no differences between strains

Fungi

Virat, M.; and Gevrey, T., 1976, Ztschr. Parasitenk., v. 48 (3-4), 299 [Abstract]

Haemonchus contortus, infectious larvae, trapping activity of several species of predacious fungi, adhesive networks more effective than sticky knobs or constricting rings, Arthrobotrys oligospora and Dactylaria thaumasia more effective species, invasion of worms

Fungi

Virat, M.; and Peloille, M., 1977, Ann. Recherches Vet., v. 8 (1), 51-58

predatory activity of fungus Arthrobotrys oligospora against larvae of Haemonchus contortus, optimal temperatures, larval density

Fungi

Wyatt, R. D.; Ruff, M. D.; and Page, R. K., 1975, Avian Dis., v. 19 (4), 730-740

chicks, interaction of aflatoxin with Eimeria tenella infection and monensin: E. tenella and aflatoxin in combination significantly increased mortality and weight depression, and caused more severely reduced hemoglobin, packed cell volume, and plasma pigmentation; monensin sodium did not completely prevent mortality and weight depression in a mixed infection; coccidial lesion scores were less for combination of E. tenella and aflatoxicosis than for coccidiosis alone

Gametes. [See also Gametogenesis]

Gametes

Anya, A. O., 1976, *Advances Parasitol.*, v. 14, 267-351

physiological aspects of reproduction in nematodes, extensive review: range of reproductive phenomena; reproductive system; male and female gametes; physiology of fertilization; development; sex differentiation; nutrition and other factors in egg production; behavioural aspects of reproduction; reproductive phenomena and parasitism

Gametes

Borut, S.; and Feldman-Muhsam, B., 1976, *J. Parasitol.*, v. 62 (2), 318-320

Argasidae spp., *Ixodidae* spp., in vitro spermiogenesis

Gametes

Bradley, R. H.; and Burghardt, R. C., 1976, *Proc. 34. Ann. Meet. Electron Microsc. Soc. America* (Miami Beach, Florida, Aug. 9-13), 158-159

Ascaris spermatozoa, immunocytochemistry of surface changes during maturation, specific antigenic differences between inactive and active, mature cells, studies by unlabeled antibody enzyme method; possible relationship to sperm's ability to recognize and/or penetrate oolemma of oocyte

Gametes

Canning, E. U.; et al., [1977], *Ann. Parasitol.*, v. 51 (6), 1976, 607-623

Hepatocystis malayensis, *H. brayi*, merocyst, gametocytes, gametogenesis, fertilization, ultrastructural observations

Gametes

Chobotar, B.; et al., 1975, *Ztschr. Parasitenk.*, v. 48 (2), 111-121

Eimeria ferrisi, macrogamonts and macrogametes in epithelial cells of *Mus musculus* cecum and colon, ultrastructure, development, oocyst wall formation

Gametes

Doens-Juteau, O., 1974, *J. Protozool.*, v. 21 (3), 470 [Abstract]

Eimeria tenella, macrogamete, oocyst, surface ultrastructure

Gametes

Feldman-Muhsam, B.; and Filshie, B. K., 1976, *Tissue and Cell*, v. 8 (3), 411-419

Ornithodoros gurneyi, *O. tholozani*, spermiphores, scanning and transmission electron microscopy, possible explanation of motility

Gametes

Ferguson, D. J. P.; et al., 1977, *Acta Path. et Microbiol. Scand.*, v. 85B (1), 67-77

Eimeria brunetti, ultrastructural changes occurring during microgametogony, ultrastructure of microgamete

Gametes

Ferguson, D. J. P.; et al., 1977, *Acta Path. et Microbiol. Scand.*, v. 85B (1), 78-88

Eimeria brunetti, ultrastructural changes occurring during microgametogony, ultrastructure of microgamete

Gametes

Ferguson, D. J. P.; Hutchison, W. M.; and Siim, J. C., 1975, *J. Protozool.*, v. 22 (3), 51A

[Abstract]
Toxoplasma gondii, development of microgamete and oocyst, ultrastructural study

Gametes

Goldstein, P.; and Moens, P. B., 1976, *Chromosoma*, v. 58 (2), 101-111

Ascaris lumbricoides var. *suum*, chromosome number determined from count of synaptonemal complexes, oocyte and spermatoocyte pachytene nuclei

Gametes

Grant, W. C.; Harkema, R.; and Muse, K. E., 1976, *J. Parasitol.*, v. 62 (1), 39-49

Pharyngostomoides procyonis, spermatogonia, nutritive cells, developmental stages of spermatids, ultrastructure, preliminary observations on seminal reservoir, seminal vesicle, and sperm found in these organs

Gametes

Halton, D. W.; and Hardcastle, A., 1976, *Internat. J. Parasitol.*, v. 6 (1), 43-53

Diclidophora merlangi, spermatogenesis, maturation of spermatozoon and its ultrastructure, early stages of cellular development in testis

Gametes

Halton, D. W.; Stranock, S. D.; and Hardcastle, A., 1976, *Parasitology*, v. 73 (1), 13-23

Diclidophora merlangi, *Diplozoon paradoxum*, *Calicotyle kroeyeri*, ultrastructural changes accompanying oocyte differentiation

Gametes

Kitajima, E. W.; Paraense, W. L.; and Correa, L. R., 1976, *J. Parasitol.*, v. 62 (2), 215-221

Schistosoma mansoni, sperm, fine structure

Gametes

Lora Lamia Donin, C.; and Cotelli, F., 1977, *J. Ultrastructure Research*, v. 61 (2), 193-200

Gordius panighettensis, ultrastructure of spermatozoon; aberrant immotile, rod-like sperm unlike any other in zoological scale

Gametes

Madden, P. A.; and Vetterling, J. M., 1977, *J. Parasitol.*, v. 63 (4), 607-610

Eimeria tenella, development of microgametes from microgamont stage to maturity and fertilization, scanning electron microscopy

Gametes

Marchand, B.; and Mattei, X., 1976, *Compt. Rend. Soc. Biol.*, Paris, v. 170 (1), 237-240

Centrorhynchus milvus, spermatozoon, ultrastructure

Gametes

Marchand, B.; and Mattei, X., 1976, *J. Ultrastructure Research*, v. 55 (3), 391-399
Acanthosentis tilapiae, spermatozoon, variation in number of central fibers in flagellum

Gametes

Mehlhorn, H.; et al., 1975, *Ztschr. Parasitenk.*, v. 48 (2), 137-150
Theileria annulata, developmental stages in intestine and haemolymph of *Hyalomma anatolicum excavatum*, microgamont-like stages, microgamete-like stages, ookinete-like stages, electron microscopy

Gametes

Mokhtar Maamouri, F.; and Swiderski, Z., 1975, *Ztschr. Parasitenk.*, v. 47 (4), 269-281
Acanthobothrium, *Onchobothrium*, spermatogenesis, spermatozoon differentiation and fine structure, electron microscopy

Gametes

Mokhtar Maamouri, F.; and Swiderski, Z., [1977], *Ann. Parasitol.*, v. 51 (6), 1976, 673-674
Echeneibothrium beauchampi, spermatozoid, ultrastructure, presence of only one axoneme

Gametes

Nollen, P. M.; et al., 1976, *J. Parasitol.*, v. 62 (2), 227-231
Schistosoma spp., pattern of gonial and vitelline cell labeling with ³H-thymidine, timing of development and movement of these reproductive cells

Gametes

Poliakova-Krusteva, O.; and Vasilev, I., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16, 153-160
Raillietina carneostrobilata, spermatozoa, ultrastructure of tail

Gametes

Schein, E.; Buescher, G.; and Friedhoff, K. T., 1975, *Ztschr. Parasitenk.*, v. 48 (2), 123-136
Theileria annulata, developmental stages in gut of engorged *Hyalomma anatolicum excavatum* nymphs, microgamonts, microgametes, macrogamonts, macrogametes, zygotes, kinetes, light microscopy

Gametes

Sinden, R. E.; Canning, E. U.; and Spain, B., 1976, *Proc. Roy. Soc. London, B., Biol. Sc.* (1110), v. 193, 55-76
Plasmodium yoelii nigeriensis, transmission electron microscopy, ultrastructure of micro- and macrogametocytes, nuclear and cytoplasmic changes during gametogenesis, fertilization

Gametes

Sinden, R. E.; and Croll, N. A., 1974, *J. Protozool.*, v. 21 (3), 452-453 [Abstract]
Plasmodium yoelii nigeriensis, kinetics of movement of microgametes, recognition of macrogamete and fertilization

Gametes

Singotam, L.; and Dass, C. M. S., 1977, *Indian J. Exper. Biol.*, v. 15 (9), 719-727
Grebeckia pixellae, scanning electron microscopy of various life cycle stages reveals: epimerite as attachment organ to host gut epithelium, epicytic folds of body wall at various regions of trophozoite, changes in body folds during gamont formation and sexual dimorphism, syzygy, gamete formation, spore structure, possible role of epicytic folds in gregarine movement and absorption of nutrients

Gametes

Smalley, M. E., 1976, *Nature* (5583), v. 264, 271-272
Plasmodium falciparum, gametocytogenesis in vitro

Gametes

Sterling, C. R.; and Aikawa, M., 1973, *J. Protozool.*, v. 20 (1), 81-92
Plasmodium gallinaceum, *Haemoproteus columbae*, *Leucocytozoon simondi*, gametocyte ultrastructure compared in detail

Gametes

Tuzet, O.; and Ktari, M. H., [1972], *Bull. Soc. Zool. France*, v. 96 (4), 1971, 535-540
Monogenea spp., ultrastructure, spermatozoon

Gametes

Vetterling, J. M.; Pacheco, N. D.; and Fayer, R., 1973, *J. Protozool.*, v. 20 (5), 613-621
Sarcocystis sp., fine structure of gametogony and oocyst formation

Gametes

Wright, E. J.; and Sommerville, R. I., 1977, *Internat. J. Parasitol.*, v. 7 (5), 353-359
Nematospiroides dubius, spermatozoa, description and location, movement in vitro, speed, locomotion not considered to be amoeboid but resembles movement of monopodial neutrophils

Gametes

Zizka, Z., 1977, *J. Protozool.*, v. 24 (2), Suppl., 17A-18A [Abstract]
Adelina tribolii microgametocytes, fine structure

Gametogenesis. [See also Gametes; Reproduction]

Gametogenesis

Antukhaev, I. K., 1977, *Tsitologia*, v. 19 (3), 288-292
Eimeria kotlani, ultrastructure of macrogamete; development within host cell nucleus; structure of wall forming bodies; nutrition presumably by pinocytosis

Gametogenesis

Anya, A. O., 1976, *Advances Parasitol.*, v. 14, 267-351
 physiological aspects of reproduction in nematodes, extensive review: range of reproductive phenomena; reproductive system; male and female gametes; physiology of fertilization; development; sex differentiation; nutrition and other factors in egg production; behavioural aspects of reproduction; reproductive phenomena and parasitism

- Gametogenesis**
Atkinson, K. H.; and Byram, J. E., 1976, *J. Morphol.*, v. 148 (4), 391-426
Moniliformis dubius, morphology and development of ovarian balls, oogenesis, rat (exper.)
- Gametogenesis**
Augustin, H.; Senaud, J.; and Doens-Juteau, O., 1976, *J. Protozool.*, v. 23 (4), 3A [Abstract]
Eimeria acervulina, microgametogenesis
- Gametogenesis**
Bogdanov, Iu. F., 1977, *Chromosoma*, v. 61 (1), 1-21
Ascaris suum, male meiosis, formation of cytoplasmic synaptonemal-like polycomplexes at leptotene and normal synaptonemal complexes at zygotene
- Gametogenesis**
Canning, E. U.; et al., [1977], *Ann. Parasitol.*, v. 51 (6), 1976, 607-623
Hepaticystis malayensis, *H. brayi*, merocyst, gametocytes, gametogenesis, fertilization, ultrastructural observations
- Gametogenesis**
Canning, E. U.; Killick-Kendrick, R.; and Garnham, P. C. C., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 8 [Demonstration]
Hepaticystis sp. from *Callosciurus nigrovittatus*, nuclear activity in macrogametocytes
- Gametogenesis**
Carter, R.; and Beach, R. F., 1977, *Nature*, London (5634), v. 270, 240-241
Plasmodium falciparum, gametocytes and gametogenesis in culture
- Gametogenesis**
Colley, F. C.; and Zaman, V., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 465-480
Toxoplasma gondii, electron microscopic study of endogenous stages
- Gametogenesis**
Desser, S. S.; Fallis, A. M.; and Allison, F. R., 1976, *Canad. J. Zool.*, v. 54 (5), 799-801
Leucocytozoon simondi, *L. tawaki*, nuclear changes preceding microgamete formation
- Gametogenesis**
Gabbay, S.; and Warburg, M. R., 1976, *J. Insect Physiol.*, v. 22 (9), 1291-1301
Ornithodoros tholozani, appearance of neurosecretory cells as related to feeding, blood digestion, mating, and oogenesis
- Gametogenesis**
Gallucci, B. B., 1974, *J. Protozool.*, v. 21 (2), 254-263
Haemoproteus columbae, macrogametogenesis, fertilization, fine structure
- Gametogenesis**
Goldstein, P., 1977, *J. Morphol.*, v. 154 (3), 317-337
Ascaris lumbricoides var. *suum*, spermatogenesis and spermiogenesis, morphology of chromosomes
- Gametogenesis**
Halton, D. W., 1976, *Parasitology*, v. 73 (2), xxvii [Abstract]
Diclidophora merlangi, *Diplozoon paradoxum*, *Calicotyle kroyeri*, oocyte differentiation, ultrastructural changes
- Gametogenesis**
Halton, D. W.; and Hardcastle, A., 1976, *Internat. J. Parasitol.*, v. 6 (1), 43-53
Diclidophora merlangi, spermatogenesis, maturation of spermatozoon and its ultrastructure, early stages of cellular development in testis
- Gametogenesis**
Halton, D. W.; Stranock, S. D.; and Hardcastle, A., 1976, *Parasitology*, v. 73 (1), 13-23
Diclidophora merlangi, *Diplozoon paradoxum*, *Calicotyle kroyeri*, ultrastructural changes accompanying oocyte differentiation
- Gametogenesis**
Huang, C. C.; et al., 1976, *Bull. Inst. Zool., Acad. Sinica*, v. 15 (1), 1-8
Rhipicephalus sanguineus, spermatogenesis, meiosis, protein synthesis through meiotic divisions, RNA synthesis limited to pre-meiotic stage
- Gametogenesis**
Khan, Z. I.; and De Rycke, P. H., 1975, *Biol. Jaarb., Gent*, v. 43, 151-172
Hymenolepis microstoma, in vitro cultivation, artificially excysted cysticercoids to egg producing adults, role of serum for strobilization and gametogenesis (results suggest success depends upon presence of certain heme compounds in the serum)
- Gametogenesis**
Londt, J. G. H.; and Spickett, A. M., 1976, *Onderstepoort J. Vet. Research*, v. 43 (3), 79-96
Boophilus decoloratus, growth of reproductive organs and gametogenesis in male and female, timing of meiosis, spermiogenesis, mating and sperm relocation in female
- Gametogenesis**
Madden, P. A.; and Vetterling, J. M., 1977, *J. Parasitol.*, v. 63 (4), 607-610
Eimeria tenella, development of microgametes from microgamont stage to maturity and fertilization, scanning electron microscopy
- Gametogenesis**
Marchand, B.; and Mattei, X., 1976, *J. Ultrastructure Research*, v. 54 (3), 347-358
Illiosentis furcatus var. *africana*, spermatogenesis, ultrastructure
- Gametogenesis**
Marchand, B.; and Mattei, X., 1977, *J. Ultrastructure Research*, v. 59 (3), 263-271
Serrasentis socialis, course of spermatogenesis, migration of centriolar derivative
- Gametogenesis**
Mokhtar Maamouri, F.; and Swiderski, Z., 1975, *Ztschr. Parasitenk.*, v. 47 (4), 269-281
Acanthobothrium, *Onchobothrium*, spermatogenesis, spermatozoon differentiation and fine structure, electron microscopy

- Gametogenesis
Mutafova, T., 1976, Ztschr. Parasitenk., v. 48 (3-4), 239-245
Ascaridia dissimilis, A. galli, gametogony, spermatogenesis, mitotic and male meiotic karyotypes, both species similar
- Gametogenesis
Oliver, J. H., jr.; and Osburn, R. L., 1977, J. Parasitol., v. 63 (1), 176-178
Otobius megnini, O. lagophilus: timing of maturation (spermatogenesis and spermiogenesis begin several days prior to 2nd nymphal ecdysis and continue during and after ecdysis); diploid chromosome number of 20
- Gametogenesis
Pasternak, J.; and Barrell, R., 1976, Exper. Cell Research, v. 102 (1), 191-199
Ascaris lumbricoides, quantitative changes in DNA, histone, and basic nuclear protein content during spermatogenesis and oogenesis, microspectrophotometry
- Gametogenesis
Pasternak, J.; and Barrell, R., 1976, Genet. Research, v. 27 (2), 339-348
Ascaris lumbricoides, quantitation of nuclear DNA during gametogenesis and embryogenesis by Feulgen-microspectrophotometry, DNA constancy and chromatin diminution
- Gametogenesis
Scholtyseck, E.; et al., 1977, Ztschr. Parasitenk., v. 51 (3), 229-240
Eimeria ferrisi, mice, electron microscopy of microgamogony
- Gametogenesis
Sinden, R. E., 1975, J. Protozool., v. 22 (3), 56A [Abstract]
Plasmodium yoelii nigeriensis, microgametogenesis, oocyst maturation, sporozoite encystment, scanning electron microscopy
- Gametogenesis
Sinden, R. E.; Canning, E. U.; and Spain, B., 1976, Proc. Roy. Soc. London, B., Biol. Sc. (1110), v. 193, 55-76
Plasmodium yoelii nigeriensis, transmission electron microscopy, ultrastructure of micro- and macrogametocytes, nuclear and cytoplasmic changes during gametogenesis, fertilization
- Gametogenesis
Sinden, R. E.; Canning E. U.; and Toye, P. J., 1977, J. Protozool., v. 24 (4), 39A [Abstract]
Plasmodium, nuclear organization during gametogenesis
- Gametogenesis
Speer, C. A.; et al., 1973, J. Protozool., v. 20 (2), 274-281
Eimeria magna, fine structure of young, intermediate, and mature macrogamonts
- Gametogenesis
Speer, C. A.; and Danforth, H. D., 1976, J. Protozool., v. 23 (1), 109-115
Eimeria magna, microgametogenesis in rabbits and in kidney cell cultures, fine structure of developmental stages
- Gametogenesis
Stammers, B. M., 1975, Ztschr. Parasitenk., v. 47 (2), 145-150
Fasciola hepatica, disruption of spermatogenesis, known fasciolicides and other anthelmintics tested
- Gametogenesis
Stockdale, P. H. G., 1977, Brit. Vet. J., v. 133 (5), 471-473
Eimeria zuernii, calves (exper.), life cycle apparently contains at least two schizogonous generations before gametogony
- Gametogenesis
Triantaphyllou, A. C.; and Moncol., D. J., 1977, J. Parasitol., v. 63 (6), 961-973
Strongyloides ransomi, S. papillosus, chromosomal complement, gametogenesis, mode of reproduction, sex determination, hybridization tests
- Gametogenesis
Varghese, T., 1976, Ztschr. Parasitenk., v. 50 (3), 227-235
Eimeria labbeana from Columba livia, microgametogenesis, fine structure of microgamonts and microgametes
- Gametogenesis
Vrablic, J., 1977, Biologia, Bratislava, s. B, Zool. (3), v. 32 (8), 565-573
Toxoplasma gondii, microgamogony, cats
- Gametogenesis
Vrablic, J., 1977, Biologia, Bratislava, s. B, Zool. (4), v. 32 (11), 841-850
Toxoplasma gondii, intestine of cat, intraepithelial stages of asexual and sexual multiplication; macrogamogony and oogony
- Gametogenesis
Wheat, B. E.; et al., 1976, Ztschr. Parasitenk., v. 50 (2), 125-136
Eimeria mivati, ultrastructure of macrogametogenesis
- Gametogenesis
Zaffagnini, F., 1972, Parassitologia, v. 14 (1), 209-214
Strongyloides papillosus females, calf strain, diploid parthenogenesis and diploid chromosome number $2n=4$; maturation of oocytes: ameiotic parthenogenesis in parasitic females and meiotic parthenogenesis in free-living females
- Gamma radiation. See Radiation.
- Garbage. See Disease transmission, Garbage.
- Gastritis. [See also Stomach]
- Gastritis
Anderson, N.; Blake, R.; and Titchen, D. A., 1976, Parasitology, v. 72 (1), 1-12
Ostertagia circumcincta, sheep, repeated infections, food intake, total acid output of fundic pouches, pH of abomasal contents, plasma pepsinogen levels, effects reversed by thiabendazole treatment, secretory capacity of fundic pouches tested with pharmacologic agents and feeding

Gastritis

- Beveridge, I.; et al., 1974, Austral. Vet. J., v. 50 (1), 36-37
Camelostromylus mentulatus, experimentally infected sheep and associated gastritis

Gastritis

- Brownstein, D. G.; et al., 1977, Vet. Path., v. 14 (6), 606-617
Cryptosporidium in snakes, severe hypertrophic gastritis, pathological changes: Baltimore Zoo, Baltimore, Maryland [and/or] National Zoological Park, Washington, D.C.

Gastritis

- Titchen, D. A.; and Anderson, N., 1977, Austral. Vet. J., v. 53 (8), 369-373
Ostertagia, sheep and cattle, physiopathology of gastritis, secretory changes of parasitized and non-parasitized mucosa, review

Gastroenteritis. [See also Intestine; Stomach]

Gastroenteritis

- Hayden, D. W.; and Van Kruiningen, H. J., 1973, J. Am. Vet. Med. Ass., v. 162 (5), 379-384
 dogs, eosinophilic gastroenteritis occurring simultaneously with visceral larva migrans and manifesting as chronic diarrhea, clinico- and histopathology, case reports, nematode larvae found in lesions of 3 of 5 cases, identified as *Toxocara canis* in 1

Gastroenteritis

- Hayden, D. W.; and Van Kruiningen, H. J., 1975, Am. J. Vet. Res., v. 36 (11), 1605-1614
Toxocara canis, dogs (exper.), eosinophilic gastroenteritis, hematologic findings, serum proteins (β -globulin content as potential diagnostic tool), precipitating humoral antibodies, intradermal test, histopathology, comparison with naturally occurring disease

Gastroenteritis

- Helle, O.; and Tharaldsen, J., 1976, Vet. Parasitol., v. 1 (4), 345-357
Ostertagia ostertagi and *Cooperia* spp. in young cattle during their first grazing season, free-living stages overwintered in sufficient numbers to cause reduced weight gain and clinical disease in early spring, thiabendazole treatment and move to clean pasture improved weight gain: Norway

Gastroenteritis

- Michel, J. F., 1976, Advances Parasitol., v. 14, 355-397
 nematode infections in grazing animals, epidemiology and control, extensive review: free-living stages (bionomics, transport); parasitic stages (population regulation, immunity, host differences, arrested development, post-parturient rise); parasitic gastro-enteritis in sheep and cattle; parasitic bronchitis in cattle

Gel diffusion. See Immunity, Precipitation.

Gel filtration. [See also Chromatography]

Gel filtration

- Harrison, L. J. S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 275 [Demonstration] gel filtration and ion exchange chromatography used to purify saline extract of *Taenia saginata* with resultant fractions used as antigen for serologic tests on cattle experimentally infected with *Cysticercus bovis*

Gel fractionation. See Gel Filtration; Chromatography.

Genes. See Chromosomes; Genetics.

Genetics. [See also Adaptation; Chromosomes; Evolution]

Genetics

- Allonby, E. W.; and Urquhart, G. M., 1976, Research Vet. Sc., v. 20 (2), 212-214
Haemonchus contortus, Merino sheep, possible relationship between haemoglobin type and resistance to haemonchosis: Kenya

Genetics

- Araujo, F. G.; et al., 1976, Infect. and Immun., v. 13 (5), 1528-1530
Toxoplasma gondii, 7 inbred and outbred strains of mice, susceptibility to infection with trophozoites at 2 different doses, striking differences in susceptibility and changes of susceptibility with dosage change, may be due to genetic factors

Genetics

- Bachmann, A. W.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (3), 361-366
Babesia argentina, experimental infection in Droughtmaster cattle which are somewhat resistant to babesiosis, no apparent correlation between hemoglobin types and resistance to infection

Genetics

- Barr, A. R., 1975, Invert. Immun. (Maramorosch and Shope), 129-135
 evidence for genetic control of invertebrate immunity and its possible field significance, review

Genetics

- Basch, P. F., 1976, Exper. Parasitol., v. 39 (1), 150-169
Schistosoma mansoni, intermediate host specificity (Biomphalaria), extensive review

Genetics

- Beverley-Burton, M.; Nyman, O. L.; and Pippy, J. H. C., 1977, J. Fish. Research Bd. Canada, v. 34 (1), 105-112
Anisakis simplex larvae, description, morphology with particular reference to excretory system; comparative morphology of larvae from *Clupea harengus harengus* and *Salmo salar* in widely separated areas of North Atlantic suggest that *Anisakis* larvae Type I is *A. simplex*, findings substantiated by acid phosphatase polymorphism studies

Genetics

- Bonner, T. P.; and Buratt, M., 1976, *Internat. J. Parasitol.*, v. 6 (4), 289-294
Nippostrongylus brasiliensis, inhibition of development and infectivity by actinomycin-D, supports hypothesis that infection is dependent upon new gene expression, i.e., transcription

Genetics

- Bonner, T. P.; Evans, K.; and Kline, L., 1976, *Internat. J. Parasitol.*, v. 6 (6), 473-477
Nippostrongylus brasiliensis, role of gene expression in regulating cuticle formation during second molt, results strongly suggest that messenger RNA specific for molting was synthesized at 90 hours

Genetics

- Brazil, R. P., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (5), 416 [Letter]
Trypanosoma cruzi from *Panstrongylus megistus*, multinucleated syncytial mass previously undescribed in life cycle, possible genetic exchange involved

Genetics

- Brener, Z.; et al., 1976, *J. Protozool.*, v. 23 (1), 147-150
Trypanosoma cruzi in cell culture, strain-dependent thermosensitivity influencing amastigote-to-trypomastigote differentiation, may result from mutational adaptation

Genetics

- Brown, A., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 284 [Demonstration]
Plasmodium yoelii, technique for isolation of microgametes of malaria parasites, potential use in genetic studies

Genetics

- Buengener, W., 1975, *Tropenmed. u. Parasitol.*, v. 26 (3), 281-284
Trypanosoma muscui in inbred mice (exper.), parasite multiplication and course of infection in single infection, after pre-infection with *T. congolense*, or with added infection of *T. brucei*

Genetics

- Burdin, M. L.; and Boarer, C. D. H., 1972, *Vet. Rec.* (4894), v. 90 (11), 299-302
Theileria parva, *Bos indicus*, *B. taurus* and mixed breeds, glucose 6 phosphate dehydrogenase levels, haemoglobin types, relation to resistance: East Africa

Genetics

- Carter, R.; and McGregor, I. A., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 830-837
Plasmodium falciparum, enzyme variation in parasites in blood of women and children, genetic diversity and its distribution: The Gambia

Genetics

- Cioli, D., 1976, *Internat. J. Parasitol.*, v. 6 (4), 349-354
Schistosoma mansoni, simple and rapid procedure for transfer into mesenteric veins of hamsters, potential usefulness with special emphasis on recommended use for schistosome genetics

Genetics

- Clarke, B., 1976, *Symposia Brit. Soc. Parasitol.*, v. 14, 87-103
 argument that genetic interactions between parasites and their hosts have played important perhaps even dominant role in maintaining protein polymorphisms, 3 hypotheses with supporting evidence, mathematical models of specific and general host resistance, consequences for evolutionary theory, symposium presentation

Genetics

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Haemonchus contortus, genetic studies of female polymorphism

Genetics

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Nematospiroides dubius, influence of serial passage on infectivity and immunogenicity in mice

Genetics

- Dojmi Di Delupis, G.; Palmieri, C.; and Piccione, G., 1972, *Parassitologia*, v. 14 (2-3), 305-308
Plasmodium gallinaceum, maintenance in lines of *Anopheles stephensi* selected for low or high receptivity, development of oocysts in various generations of both lines

Genetics

- Frenkel, J. K.; Dubey, J. P.; and Hoff, R. L., 1976, *J. Protozool.*, v. 23 (3), 421-424
Toxoplasma gondii, *Besnoitia jellisoni*, loss of stages after prolonged passage in tachyzoite stage (*T. gondii* developed cysts which when fed to cats failed to produce oocysts; *B. jellisoni* lost capacity to form cysts), phenomena explained by loss of genomes or gene products

Genetics

- Gelpi, A. P.; and King, M. C., 1976, *Science*, v. 191 (4233), 1284
Plasmodium falciparum, *P. vivax*, Duffy blood group antigens, sickle cell trait carriers and resistance to malaria: Saudi Arabia

Genetics

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Leishmania donovani, promastigotes, adaptation to cultivation at 37 C., genetic selection rather than dauermodification appears to be responsible for thermal adaptation

Genetics

- Goldstein, P., 1977, *J. Morphol.*, v. 152 (2), 141-151
Ascaris lumbricoides var. *suum*, chromatin diminution in early embryogenesis, three characteristic types of mitoses (pre-diminution, diminution, and post-diminution mitosis)

Genetics

- Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 504-512
Trypanosoma brucei, *T. rhodesiense*, *T. equiperdum*, polymorphic strains, sensitivity to human plasma, composition and detailed analysis of typical strains using α_2 -macroglobulin test

Genetics

- Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 427-430
Trypanosoma rhodesiense (6 clones of stabilate), polymorphic trypanosomes (12 clones of stabilate), tests for resistance to human plasma, indications for fundamental differences of genetic material

Genetics

- Huheey, J. E.; and Martin, D. L., 1975, Experimentia, v. 31 (10), 1145-1147
 synergistic interaction between favism and glucose-6-phosphate dehydrogenase deficiency in protection against malaria: Mediterranean area

Genetics

- Ilan, J.; Pierce, D. R.; and Miller, F. W., 1977, Proc. Nat. Acad. Sc., v. 74 (8), 3386-3390
Plasmodium berghei, 9- β -D-arabinofuranosyladenine markedly depresses total protein synthesis and induces pronounced changes in spectrum of proteins synthesized (indicating changes in commitment for gene expression)

Genetics

- Jansen, J., 1977, Trop. and Geogr. Med., v. 29 (3), 316-317 [Abstract]
 trichostrongylosis, sheep, questionable correlation between breed susceptibility to infections and hemoglobin types of breeds

Genetics

- Jansma, W. B.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 926-936
Schistosoma mansoni, genetically transferred resistance to hycanthone produced under 3 different types of conditions

Genetics

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Eimeria tenella, attempt to genetically alter developmental rate in order to elucidate mechanisms controlling length of prepatent period, selection for precociousness was accompanied by attenuation, lack of pathogenicity apparently due to defective second-generation schizogony

Genetics

- Jeffers, T. K., 1976, Ztschr. Parasitenk., v. 50 (3), 251-255
Eimeria tenella, decoquinate-sensitive, precocious strain crossed with decoquinate-resistant, normally developing strain, genetic recombination

Genetics

- Joyner, L. P.; and Norton, C. C., 1977, Parasitology, v. 74 (2), 205-213
Eimeria maxima, genetic transfer of drug resistance, results support view that drug resistance factors are transferred at zygote formation, phenomenon took place between variants of the same species (*Eimeria maxima* var. *indentata*) but not between different species (*Eimeria brunetti*), transference not affected by treatment with acriflavine

Genetics

- Kallinikova, V. D., 1977, Molec. and Cell. Biochem., v. 14 (1-3), Feb. 4, 55-58
 Kinetoplastida, kinetoplast genetic system, implications for concept of cell differentiation and phylogeny, relationship to phenotype of these flagellates

Genetics

- Krasnolobova, T. A., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 64-71
 Trematoda, bases of variation in morphology and size (environmental, seasonal, genetic, growth, host species, crowding, fixation techniques), review of experimental studies

Genetics

- Le Jambre, L. F., 1977, Internat. J. Parasitol., v. 7 (1), 9-14
Haemonchus contortus cayugensis females, genetics of vulvar morph types, dominance hierarchy found to be linguiform > knobbed > smooth

Genetics

- Le Jambre, L. F.; and Ractliffe, L. H., 1976, Parasitology, v. 73 (2), 213-222
Haemonchus contortus cayugensis, lambs, infection with selected strain of smooth or of linguiform worms and subsequent grazing on same pasture, seasonal changes in phenotypes in relation to population density (affects frequencies of linguiform A vs. B but not of smooth vs. linguiform), "It appears therefore that the proportion of smooth to linguiform worms is a stable equilibrium maintained by natural selection."

Genetics

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Haemonchus contortus from New South Wales, genetics of vulvar morph types, dominance hierarchy of these characters found to be smooth > knobbed > linguiform, linguiform phenotype most common in wild type population

Genetics

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Haemonchus contortus, dose mortality response of strains selected by thiabendazole or by thiabendazole plus morantel tartrate to thiabendazole, morantel tartrate, or levamisole, results indicate that resistance to thiabendazole is due to a single gene and resistance to morantel tartrate is polygenic in nature

Genetics

- Macdonald, W. W., 1976, Symposia Brit. Soc. Parasitol., v. 14, 1-24
Aedes scutellaris complex, *Culex pipiens*, genetics, relevance to possible control of filariasis vector populations, symposium presentation

Genetics

- McGreevy, P. B.; McClelland, G. A. H.; and Lavoipierre, M. M. J., 1974, Ann. Trop. Med. and Parasitol., v. 68 (1), 97-109
Dirofilaria immitis, susceptibility of *Aedes aegypti* controlled by sex-linked recessive gene which is distinct from those controlling development of *Brugia pahangi* or *D. corynodes*, variation in filarial infectivity as well as in mosquito susceptibility

Genetics

- Machel, M.; and Krynski, S., 1976, Ztschr. Ang. Zool., v. 63 (3), 299-305
 lice maintained in laboratory since 1918, constant conditions for 30 years, comparison with 30 years earlier: larval stage shortened, temperature range for development reduced, body weight and amount of blood taken increased

Genetics

- Mason, S. J.; et al., 1977, Brit. J. Haematol., v. 36 (3), 327-335
Plasmodium knowlesi, evaluation of role of Duffy blood group negative erythrocytes in host resistance to invasion by *P. knowlesi* merozoites

Genetics

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Trypanosoma cruzi, selection of both susceptible and refractory lines of *Rhodnius prolixus*, results of selection program related to genetic control of susceptibility to infection, using only male bugs of susceptible stock for xenodiagnosis should enhance sensitivity of this diagnostic test for chronic Chagas' disease

Genetics

- Michel, J. F.; Lancaster, M. G.; and Hong, C., 1976, Internat. J. Parasitol., v. 6 (1), 83-86
Ostertagia ostertagi females, variation in form of vulval flap, effect of genetic factors much smaller than effect of host resistance

Genetics

- Miller, L. H.; et al., 1976, N. England J. Med., v. 295 (6), 302-304
Plasmodium vivax, resistance factor in African and American blacks, Duffy determinants on erythrocyte surface required for invasion of erythrocyte by vivax merozoites (Duffy-blood-group-negative human erythrocytes resistant to invasion)

Genetics

- Miller, L. H.; and Carter, R., 1976, Exper. Parasitol., v. 40 (1), 132-146
 mechanisms of innate resistance in malaria, extensive review

Genetics

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Trypanosoma brucei sspp., amplification of kinetoplast DNA probably occurs in culture forms, much larger amounts of DNA in culture forms than in bloodstream forms; no significant differences found in *T. lewisi* forms

Genetics

- Obiamiwe, B. A., 1977, Ann. Trop. Med. and Parasitol., v. 71 (3), 367-370
Brugia pahangi, susceptibility rates of 5 strains of *Culex pipiens fatigans* (exper.) to infections found to be low with no direct relationship to parasitemia but rather controlled by sex-linked recessive gene

Genetics

- Obiamiwe, B. A., 1977, Ann. Trop. Med. and Parasitol., v. 71 (4), 487-490
 sub-periodic *Brugia malayi*, periodic *Wuchereria bancrofti*, influence of the sb gene in *Culex pipiens* vectors on susceptibility to parasite development

Genetics

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Boophilus microplus, infestation of British vs. zebu calves in early life (nat. and exper.), differences in resistance, changes in blood composition

Genetics

- Ong, T.-M.; et al., 1977, Mutation Research, v. 48 (1), 37-42
furapromidium, induces gene mutations in various test systems presenting a possible mutagenic and carcinogenic hazard to man being treated for schistosomiasis japonica

Genetics

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Wuchereria bancrofti, susceptibility of *Culex pipiens fatigans* to infection, laboratory studies, genetic studies with three generations of mosquitoes, evidence of modifier genes

Genetics

- Pasternak, J.; and Barrell, R., 1976, Genet. Research, v. 27 (2), 339-348
Ascaris lumbricoides, quantitation of nuclear DNA during gametogenesis and embryogenesis by Feulgen-microspectrophotometry, DNA constancy and chromatin diminution

Genetics

- Pasvol, G.; and Weatherall, D. J., 1977, Brit. J. Haematol., v. 36 (3), 445-446 [Abstract]
P[lasmodium] falciparum, host resistance to infection probably related to genetics and acquired alterations in red blood cells

Genetics

Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1976, *Exper. Parasitol.*, v. 39 (3), 365-376
Toxoplasma gondii, chemical mutagenesis, selection of temperature-sensitive mutants, less virulent for mice than wild type RH strain

Genetics

Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1977, *Exper. Parasitol.*, v. 42 (1), 44-55
Toxoplasma gondii, inhibition of growth and RNA and DNA synthesis by 5-fluorodeoxyuridine (FUDR), isolation and partial characterization of FUDR-resistant mutant also resistant to fluorouracil and fluorouridine, examination of possible mechanisms of resistance yielded new insights into pyrimidine salvage pathways of the parasite

Genetics

Polianskii, Iu. I.; and Raikov, I. B., 1977, *Zhurnal Obshch. Biol.*, v. 38 (3), 325-335
 Protozoa, evolution, polymerization and oligomerization processes in nuclei and organelles, particularly ciliae, theoretical review

Genetics

Richards, C. S., 1976, *Symposia Brit. Soc. Parasitol.*, v. 14, pp. 45-54
Schistosoma mansoni in *Biomphalaria glabrata*, genetics of host-parasite relationship, selection for substrains more and less infective than parent St. Lucian strain of parasite, snail susceptibility to these substrains, symposium presentation

Genetics

Ringelmann, B.; et al., 1976, *Am. J. Hum. Genet.*, v. 28 (3), 270-279
 possible relationships between hemoglobin types and human malarial infection rate, parasite species, parasite density, host age and sex; correlations with transplacental and passive immunity

Genetics

Rivera-Ortiz, C.-I.; and Nussenzweig, R., 1976, *Exper. Parasitol.*, v. 39 (1), 7-17
Trichinella spiralis, differential ability of several inbred mouse strains of different histocompatibility locus specificities to produce reagin and IgG, antibodies in response to infection, relationship between production of anaphylactic antibodies and larval and adult recoveries, stage of life cycle which induces antibody formation

Genetics

Rosario, V. E., 1976, *Nature* (5561), v. 261, 585-586
Plasmodium chabaudi, genetic basis of chloroquine resistance investigated in crosses between lines differing additionally in pyrimethamine-susceptibility

Genetics

do Rosario, V. E., 1977, *J. Protozool.*, v. 24 (2), Suppl., 4A [Abstract]
Plasmodium chabaudi, genetics of chloroquine resistance

Genetics

Seitz, H. M., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 417-425
Plasmodium berghei, strain K 173 in isogenic mouse strains (exper.), infection course, immunization by intermittent suppression of parasite multiplication by maintaining mice on milk diets of varying lengths, F1-hybrids most resistant and immunization attempts most successful with this strain

Genetics

Shirley, M. W.; and Millard, B. J., 1976, *Parasitology*, v. 73 (3), 337-341
Eimeria tenella, single sporozoite infections in chicken embryos, results demonstrate bisexual nature of sporozoite, suggest that sexual differentiation is influenced by environmental factors, and show that true clones of *Eimeria* can be established from individual sporozoites

Genetics

Smyth, J. D., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 93-100
Echinococcus granulosus, strain differences with special reference to horse strain now the major strain in the United Kingdom and Ireland, unknown potential to infect man, symposium report, genetics of strain formation and speciation

Genetics

Stone, B. F.; Nolan, J.; and Schuntner, C. A., 1976, *Austral. J. Biol. Sc.*, v. 29 (3), 265-279
Boophilus microplus, 3 strains, biochemical genetics of resistance to organophosphorus acaricides: inheritance of decreased brain acetylcholinesterase activity, inheritance of decreased AChE sensitivity, inheritance of increased detoxication

Genetics

Stone, B. F.; Wilson, J. T.; and Youlton, N. J., 1976, *Austral. J. Biol. Sc.*, v. 29 (3), 251-263
Boophilus microplus, 3 strains, linkage and dominance characteristics of genes for resistance to organophosphorus acaricides and allelic inheritance of decreased brain cholinesterase activity

Genetics

Sucharit, S.; and Macdonald, W. W., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (1), 71-77
Brugia pahangi, rats (exper.), selection program in which rats susceptible to infection were selectively bred, increase in microfilaria rate by F4 generation, resistance to infection in older male rats seemed to be reduced

Genetics

Terwedow, H. A., jr.; and Craig, G. B., jr., 1977, *Exper. Parasitol.*, v. 41 (2), 272-282
Walttonella flexicauda, development controlled by genetic factor in *Aedes aegypti*, this factor for susceptibility did not control development of *Brugia pahangi* or *Dirofilaria immitis*

Genetics

- Toure, S. M., 1977, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 30 (2), 157-174
review of knowledge of trypanotolerance, genetic and immunological, ecological and pathophysiological factors

Genetics

- Townson, H., 1974, Ann. Trop. Med. and Parasitol., v. 68 (2), 239-240
Brugia pahangi, development in male Aedes aegypti of 'refractory' genotype, females remained refractory even when larvae were introduced by inoculation

Genetics

- Wagner, K. P.; and Krassner, S. M., 1976, Exper. Parasitol., v. 39 (2), 222-233
Leishmania tarentolae promastigotes, replicating techniques, isolation of stable mutant strains resistant to chloramphenicol, isolation of cell lines stress-adapted to streptomycin and to high culture temperatures, factors influencing resistance, mode of action of chloramphenicol (inhibition of protein synthesis and proline oxidation)

Genetics

- Wakelin, D., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 277 [Demonstration]
Trichuris muris in mice, possible genetic control of immune responses

Genetics

- Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 403-411
Toxoplasma gondii, sheep muscular tissue, incidence correlated with dye test titres and haemoglobin type (higher in type B than A or AB), possible genetic influence on infection, epidemiology, meat inspection: southern Norway

Genetics

- Walliker, D., 1976, Symposia Brit. Soc. Parasitol., v. 14, 25-44
Plasmodium, genetic techniques (hybridization and cloning; genetic markers--enzyme polymorphism, drug-resistance, etc.), genetic recombination experiments, genetic factors influencing host-parasite relationships (strain-specific immunity; virulence), symposium presentation

Genetics

- Walliker, D.; et al., 1976, Parasitology, v. 72 (2), 183-194
Plasmodium yoelii yoelii, genetic basis of sudden appearance of virulence

Genetics

- Walliker, D.; and Carter, R., 1973, J. Protozool., v. 20 (4), 529
Plasmodium vinckei chabaudi, demonstration of genetic recombination between two lines

Genetics

- Walliker, D.; and Sanderson, A., 1977, J. Protozool., v. 24 (4), 39A [Abstract]
Plasmodium yoelii yoelii, genetics of virulence

Genetics

- Washburn, K. W., 1975, Avian Dis., v. 19 (4), 791-801

Eimeria tenella, chickens with mutant and normal hemoglobin types compared under conditions of hematopoietic stress from coccidiosis infection and blood loss from mechanical bleeding

Genetics

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survey of 2 rural Gambian villages showed total absence of Duffy blood group antigens and absence of Plasmodium vivax infection although P. falciparum, P. malariae and P. ovale were present; findings consistent with theory that absence of Duffy phenotypes constitutes basis of innate resistance to P. vivax

Genetics

- Weppelman, R. M.; Battaglia, J. A.; and Wang, C. C., 1977, Exper. Parasitol., v. 42 (1), 56-66

Eimeria tenella, selection and frequency of drug-resistant mutants in chickens medicated with optimal levels of drugs, mutants resistant to amquinatate or glycarbylamide were isolated but this procedure failed to yield mutants resistant to amprolium, nicarbazin, robenidine, or monensin

Genetics

- Wilson, D. S., 1977, Behavior Ecol. and Sociobiol., v. 2 (4), 421-425
analysis of altruistic behavior of Dicrocoelium dendriticum in ant host, mathematical model; theoretically possible for behavior to evolve even when parasites of one host are derived from as many as five different parents

Genetics

- Yoeli, M., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 24-35
Plasmodium berghei yoelii in mice (exper.), promising model for study of cerebral malaria in man caused by P. falciparum (history, origin of virulent strain, pathology, enzyme differentiation, virulence expressed by mutation and genetic change)

Genetics

- Zaitseva, G. N.; Kolesnikov, A. A.; and Shirshov, A. T., 1977, Molec. and Cell. Biochem., v. 14 (1-3), 47-54
Crithidia oncopelti, kinetoplast DNA, structure, transcription, protein-synthesizing apparatus, protein synthesis controlled by kinetoplast genome

Genetics

- Zielke, E., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 36-44
Culex pipiens fatigans, Aedes aegypti, selection of strains differing in susceptibility to Dirofilaria immitis, demonstrated that inheritance of susceptibility in Aedes aegypti is controlled by sex-linked recessive gene, also found that susceptibility to infection with Brugia pahangi is on same chromosome but in different locus

Geographic distribution. [See also Names of individual countries, continents, other geographic units]

Geographic distribution

Amerson, A. B., jr., 1968, J. Med. Entom., v. 5 (3), 332-339
tick distribution, influence of sea bird movement: Central Pacific

Geographic distribution

Ashurova, M., 1973, Zool. Zhurnal., v. 52 (11), 1602-1606
zoogeographic analysis of parasite fauna of fishes in Tibetan province of Mountain-Asian subregion

Geographic distribution

Brooks, D. R., 1977, System. Zool., v. 26 (3), 277-289
plagiorchioid trematodes of anurans with special emphasis on species of Glythelmins, implications of morphological cladistic interrelationships and zoogeography, evolutionary history involving parasite vicariance and dispersal as a result of host speciation and host dispersal

Geographic distribution

Bull, M.; and Smyth, M., 1973, Austral. J. Zool., v. 21 (1), 103-110
Aponomma hydrosauri, Amblyomma albolimbatum, A. limbatum, abutting allopatric distributions, water balance of nymphs and adults in relation to distribution: South Australia

Geographic distribution

de Carneri, I., 1974, Riv. Parassitol., Roma, v. 35 (4), 277-284
Necator americanus, human, geographic distribution in northern band extending from Portugal to Iran, prevailing over Ancylostoma duodenale

Geographic distribution

Chubb, J. C., 1976, Parasitology, v. 73 (2), x [Abstract]
monogeneans of freshwater fishes, seasonal studies in relation to world climatic zones

Geographic distribution

Dedet, J. P., 1976, Bull. Inst. Pasteur, Paris, v. 74 (4), 413-434
Leishmania donovani, extensive review of human visceral leishmaniasis as world wide problem, geographic distribution, parasite life cycle, bibliography

Geographic distribution

Durette-Desset, M. C., 1976, Bull. Mus. National Hist. Nat., Paris, 3. s. (388), Zool. (270), 711-720
Brevistriatinae, redefinition based on evolution of important characteristics (orientation of ridges, carene development, number and segmentation of crests), good correlation between morphological characters and distribution of species among hosts and geographical regions

Geographic distribution

Dvoriadkin, V. A., 1976, Zool. Zhurnal, v. 55 (4), 515-520
Nanophyetidae, analysis of geographic range of species in relation to zoogeographic areas, intermediate host distribution and specificity, life cycles

Geographic distribution

Kakacheva-Avramova, D., 1973, Izvest. Tsentral. Khelmint. Lab., v. 16, 81-85
zoogeographic analysis of helminth fauna of fresh water fish in Bulgaria

Geographic distribution

Kazakov, B. E., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 43-52
helminths of vertebrates of tundra zones, biological peculiarities related to habitat, review

Geographic distribution

Korenberg, E. I.; and Lebedeva, N. N., 1976, Zool. Zhurnal, v. 55 (10), 1468-1475
Ixodes persulcatus, 59 regional population complexes within range, indices of abundance and adult seasonal activity, boundaries for each

Geographic distribution

Kuris, A. M.; and Blaustein, A. R., 1977, Science (4278), v. 195, 596-597
ectoparasitic mites on rodents as an application of the island biogeography theory, rebuttal of Dritschilo, W.; et al., 1975, Science (4213), v. 190, 467-469

Geographic distribution

Lewis, R. E., 1972, J. Med. Entom., v. 9 (6), 511-520
Pulicidae, world-wide distribution by zoogeographical regions and subregions, host preferences; list of genera and species

Geographic distribution

Lewis, R. E., 1973, J. Med. Entom., v. 10 (3), 255-260
Rhopalopsyllidae, Malacopsyllidae, Vermipsyllidae, world-wide distribution by zoogeographical regions, host preferences; list of genera and species

Geographic distribution

Lewis, R. E., 1974, J. Med. Entom., v. 11 (5), 525-540
Ancistropsyllidae, Chimaeropsyllidae, Ischnopsyllidae, Leptopsyllidae, and Macropsyllidae, geographic distribution and host preferences, list of genera and species

Geographic distribution

Lomakin, V. V., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 90-95
nematodes of fishes, zoogeographical analysis, review: Caspian Sea

Geographic distribution

Mackiewicz, J. S., 1976, Tr. Am. Micr. Soc., v. 95 (2), 267 [Abstract]
caryophyllid cestodes, zoogeographical distribution, pattern raises questions of possible co-evolution of host and parasite

Geographic distribution

Miyazaki, I., 1974, *Internat. Med. Found. Japan. Reporting series* (4), 101-135
Paragonimus spp., human and animal lung flukes, morphologic and life cycle comparisons, worldwide geographic distribution

Geographic distribution

Mrciak, M.; and Rosicky, B., 1975, *Biologia, Bratislava, s. B, Zool.*, v. 30 (8), 589-597
 parasites of small mammals and birds in high altitude areas, geographical distribution in relation to altitude, geological history, and host distribution, adaptations to alpine conditions including life history adaptations, review: High Tatra Mountains, Slovakia

Geographic distribution

O'Connor, B.; et al., 1977, *Science* (4278), v. 195, 598
 ectoparasitic mites on rodents as an application of the island biogeography theory, answer to rebuttal of Kuris, A. M.; and Blaustein, A. R., 1977, *Science* (4278), v. 195, 596-597

Geographic distribution

Parukhin, A. M., 1973, *Zool. Zhurnal*, v. 52 (1), 38-44
 helminth fauna of Carangidae, zoogeographic analysis: oceans of the world

Geographic distribution

Poirot, J. L.; et al., 1976, *Medecine et Malad. Infect.*, v. 6 (1), 32-35
 survey of origination of patients infected with strongyloidiasis and ancylostomiasis in Paris hospital

Geographic distribution

Protasova, E. N., 1976, *Zool. Zhurnal*, v. 55 (2), 205-214
 Bothriocephalata, distribution by zoogeographical regions, predominance of marine species, geological history, probable origins

Geographic distribution

Rodhain, F.; and Rodhain-Rebourg, F., 1974, *Medecine et Malad. Infect.*, v. 4 (3), 133-138
Wuchereria bancrofti, review of geographic distribution surveys of human lymphatic filariasis in the African continent south of the Sahara

Geographic distribution

Rohde, K., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 93-94
 species diversity of fish parasites in coral reef habitats, higher numbers of species of *Monogenea* per species of fish than in higher latitudes, theoretical discussion: Capricorn group of reefs, Great Barrier Reef

Geographic distribution

Roitman, V. A., 1975, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 25, 115-124
 Monogenea of salmonid fishes of the world, distribution of fluke genera by host genera, biogeographical analysis, review

Geographic distribution

Sasa, M., 1976, *Human filariasis. A global survey of epidemiology and control*, 819 pp., illus., maps
 human filariasis, global survey, epidemiology and control

Geographic distribution

Skvortsov, V. G., 1971, *Parazity Zhivot. i Rasten.*, *Akad. Nauk Moldavsk. SSR* (7), 57-75
 helminth fauna of Chiroptera, geographic distribution, extensive review

Geographic distribution

Smyth, M., 1973, *Austral. J. Zool.*, v. 21 (1), 91-101
Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, survey, distributions overlap remarkably little over long boundaries, roughly correlated with climate, vegetation, and, in one case, soil

Geographic distribution

Steele, J. H.; and Arambulo, P. V. III, 1975, *Internat. J. Zoonoses*, v. 2 (2), 55-75
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Granuloma

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Granuloma

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Granuloma

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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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- Granuloma**
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Granuloma

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Granuloma

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Schistosoma mansoni, mice, cholera toxin profoundly suppressed cell-mediated immunologic reactivity (dermal footpad swelling to soluble egg antigens, granuloma formation around eggs, production of macrophage migration inhibition factor) and ameliorated portal hypertension and esophageal varices in hepatosplenic schistosomiasis

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Granuloma

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(*Toxocara* spp.; *Toxascaris leonina*; *Ancylostoma* sp.; *Uncinaria* sp.; *Taenia* sp.; *Dipylidium* sp.; fleas; *Toxocara canis*; *Trichuris* spp.; lice)
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- Great Britain, England
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(*Toxocara canis*; *Toxascaris leonina*; *Trichuris vulpis*; *Uncinaria stenocephala*)
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- Great Britain, Scotland
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(*Giardia lamblia*; *Trichuris trichiura*; *Ascaris lumbricoides*; hookworm; threadworms; *Hymenolepis nana*; *Entamoeba coli*; *Iodamoeba buetschlii*)
- Great Britain, Wales
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(*Taenia hydatigena*; *Dipylidium caninum*; *Taenia pisiformis*; *T. multiceps*; *Echinococcus granulosus*)
- Great Britain, Wales
Walters, T. M. H., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 105-108
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- Greenland
Brinkmann, A., jr., 1975, *Medd. Grønland*, v. 205 (2), 1-88
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- Growth, Host
van Adrichem, P. W. M.; and Shaw, J. C., 1977, *J. Animal Sc.*, v. 45 (3), 417-422
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- Growth, Host
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- Growth, Host
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- Growth, Host
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- Growth, Host
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Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology; blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)
- Growth, Host
Bergstrom, R. C.; Kinnison, J. L.; and Werner, B. A., 1977, *Am. J. Vet. Research*, v. 38 (6), 887-888
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- Growth, Host
Berry, C. I.; and Dargie, J. D., 1976, *Vet. Parasitol.*, v. 2 (4), 317-332
Fasciola hepatica, sheep, role of host nutrition in pathogenesis, effects of diets providing different protein intake and of a switch from high to low protein diet on anemia, hypoalbuminemia, and weight

- Growth, Host
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assessment of growth-rate and growth-retardation in Australian Aboriginal children before and after treatment for common intestinal parasites
- Growth, Host
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- Growth, Host
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- Growth, Host
Canale, A.; et al., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 72-82
Fasciola hepatica, calves (exper.), no strong variations in ability to digest diet as compared to controls, not an explanation for observed growth deficiencies
- Growth, Host
Canale, A.; et al., 1977, Folia Vet. Latina, v. 7 (1), 82-90
Ostertagia ostertagi, calves (exper.), digestive utilization of host diet, results indicate that the diminished digestibility is not sufficient to account for the reduced growth
- Growth, Host
Cattan, P. E.; and Videla, N. N., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 71-74
Anisakis sp., survey of parasitized Trachurus murphyi (cavidad celomatica, mesenterios, estomago, intestino, gonadas), relationship between size of fish and frequency of parasitism, potential for human infection through fish consumption: puertos de Arica e Iquique, Chile
- Growth, Host
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- Growth, Host
Chapman, H.D.; Lewis, J.A.; and Searle, R.M., 1973, Research Vet. Sc., v. 14 (3), 369-375
growth of lambs during acquisition of natural infection of coccidia acquired at pasture, no difference in growth between untreated and amprolium-sulphadimidine treated groups; absence of effect on growth of identical medication regime in relatively coccidia-free lambs indicates lack of toxicity of drugs; results demonstrate that natural subclinical infections of coccidia are not important under this husbandry system
- Growth, Host
Coop, R. L.; and Sykes, A. R., 1977, Parasitology, v. 75 (2), xxxvi-xxxvii [Abstract]
Fasciola hepatica, sheep, sub-clinical infection reduced liveweight gain, food intake, efficiency of food utilization, and deposition of fat and protein
- Growth, Host
Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1976, Parasitology, v. 73 (2), xxxii [Abstract]
Ostertagia circumcincta, lambs, subclinical infection, effect on food intake and utilization and skeletal growth
- Growth, Host
Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1977, Research Vet. Sc., v. 23 (1), 76-83
Ostertagia circumcincta, sheep (exper.), continuous small infections, clinical observations, body weight and food intake, worm populations and faecal egg count, pathology, concentrations of serum constituents and assessment of their value in diagnosis of sub-clinical ostertagiasis
- Growth, Host
Copeman, R.; Pashen, D.; and Burger, G., 1975, Med. J. Australia, v. 1, suppl. 2, 8-13
association of common intestinal parasites to growth, nutrition and living situation of Aboriginal children: Cunnamulla, Western Queensland
- Growth, Host
Cormaci, M., 1973, Atti Accad. Gioenia Sc. Nat. Catania, v. 149, 7. s., v. 5, 51-61
Mytilicola intestinalis, incidence increases with size of Mytilus galloprovincialis, under 8 parasites per mussel causes no weight loss: Siracusa
- Growth, Host
Cornwell, R. L.; Jones, R. M.; and Pott, J. M., 1973, Brit. Vet. J., v. 129 (6), 526-532
cattle, morantel tartrate, good results against Cooperia sp., Ostertagia sp., and Trichostrongylus sp., increased weight gain in treated cattle, field trials: United Kingdom
- Growth, Host
Cottier, K.; Dobbie, J. L.; and Andrew, B. L., 1976, N. Zealand J. Exper. Agric., v. 4 (3), 285-290
anthelmintic drenching of lambs from January to June, 0 vs. 3 vs. 6 drenches, effect on live weight gains and on wool weight and quality, drenching is beneficial but greater increases due to 6 drenches are probably offset by greater costs: Waikato, New Zealand
- Growth, Host
Crossland, N. O.; et al., 1977, Brit. Vet. J., v. 133 (5), 518-525
Fasciola hepatica, lowland sheep, oxcylozanide and molluscicide trifenmorph, increased productivity and weight gain, increased weight and number of lambs produced: United Kingdom

- Growth, Host
 Cummins, L. J.; and Tweedle, N. E., 1977, Austral. Vet. J., v. 53 (12), 591-592
Linognathus vituli, cattle, light infestations, lice control with famphur and levamisole had no influence on host growth: western Victoria
- Growth, Host
 Damron, B. L.; et al., 1977, Poultry Science, v. 56 (5), 1487-1491
 coccidiostats lasalocid or monensin in combination with roxarsone and various levels of methionine, broiler performance and processing characteristics
- Growth, Host
 DeVaney, J. A., 1976, Poultry Science, v. 55 (1), 430-435
Menacanthus stramineus, caged White Leghorn hens, decrease in hen weight, egg production, clutch size and feed consumption
- Growth, Host
 Downey, N. E., 1976, Vet. Rec., v. 99 (14), 267-270
 nematodes, calves (natural infections), oxfendazole compared with levamisole (oxfendazole showed higher efficacy than levamisole against *Ostertagia* spp., similar efficacy against other species), both drugs increased calves' weight gains
- Growth, Host
 Edwards, C. M.; et al., 1976, Vet. Rec., v. 98 (18), 372
 liver flukes, sheep (exper.), reduced growth and quality of sheep wool
- Growth, Host
 Euzeby, J., 1976, Rev. Med. Vet., Toulouse, v. 127 (12), 1747-1763
 gastrointestinal nematodes, lambs, pyrantel tartrate, good efficacy, increased host growth
- Growth, Host
 Evans, W. A., 1974, J. Wildlife Dis., v. 10 (4), 341-346
Sanguinicola klamathensis, growth, mortality, and blood changes of experimentally infected *Salmo clarki*
- Growth, Host
 Fitzgerald, P. R.; and Mansfield, M. E., 1973, J. Protozool., v. 20 (1), 121-126
Eimeria bovis, Holstein-Friesian calves (exper.), monensin incorporated in pelleted feed protected against severe clinical coccidiosis, observations on oocyst discharge in feces, clinical signs, weight gains, food consumption, hemoglobin, packed cell volume, total serum protein, sodium and potassium content of serum, and differential white cell count
- Growth, Host
 Frelief, P.; et al., 1977, Science (4284), v. 195, 1341-1342
Sarcocystis, 8 yearling dairy heifers, clinical and hematologic findings, histologic demonstration of schizonts, serologic evidence confirmed diagnosis, resident farm dog incriminated as source of infection, possible economic impact of acute sarcocystosis causing poor growth rate or death: Seneca County, central New York State
- Growth, Host
 Fudalewicz-Niemczyk, W.; et al., 1975, Med. Wet., v. 31 (11), 666-668
 sheep helminths, effective control with nilverm and zanil, increased weight gains and shearing yields: Hanczowa, Gorlice district
- Growth, Host
 Fudalewicz-Niemczyk, W.; et al., 1976, Acta Zootech., Bratislava (32), 5-19
 gastrointestinal helminths, mountain sheep, nilverm and zanil, favorable influence on body weight and wool production of treated animals, no influence of treatment on fertility: Poland
- Growth, Host
 Garadi, P.; and Biro, P., 1975, Ann. Inst. Biol. (Tihany) Hungar. Acad. Scient., v. 42, 165-173
Ligula intestinalis, *Abramis brama*, effect on bream growth (through measurements of standard length, total caudal radii of scales, weight): Lake Balaton, Hungary
- Growth, Host
 Gibson, T. E.; and Everett, G., 1976, J. Comp. Path., v. 86 (2), 269-274
Ostertagia circumcincta, lambs, effect of different levels of larval intake on faecal egg counts and weight gain, no significant acquired resistance demonstrated
- Growth, Host
 Gibson, T. E.; and Everett, G., 1975, Vet. Parasitol., v. 1 (1), 85-89
Ostertagia circumcincta, ewes and lambs exposed to experimentally simulated postparturient rise of faecal egg count on pastures, compared to similar group not exposed to postparturient rise, worm burdens and weight gains, implications for control
- Growth, Host
 Gibson, T. E.; and Everett, G., 1975, Vet. Parasitol., v. 1 (1), 77-83
Ostertagia circumcincta infection in lambs originating from larvae which survived the winter, pastures with high vs. low residual larval infection, differences in worm burdens between 2 groups but no significant difference in weight gain, implications for worm control

- Growth, Host
Gibson, T. E.; and Parfitt, J. W., 1976, J. Comp. Path., v. 86 (4), 547-555
Ostertagia circumcincta, sheep, phenothiazine and thiabendazole treatment, no influence on host resistance, slight effect on weight gain
- Growth, Host
Golebiowski, S.; and Barancewicz, S., 1976, Med. Wet., v. 32 (7), 424-426
influence of polfamix, polfasol and dehelminthization with piperazine adipate, fattening of pigs
- Growth, Host
Guerrero, C.; Rojas, M.; and Vargas, J., 1974, Rev. Invest. Pecuarias, v. 3 (1), 9-14
gastrointestinal nematodes, alpacas, activity of 1-tetramisole, significant body weight gain in treated animals
- Growth, Host
Gupta, M. C.; et al., 1977, Lancet, London (8029), v. 2, 108-110
ascariasis-infested preschool children, effect of periodic deworming with tetramisole on nutritional status and growth in children receiving government-supplied food supplements: Uttar Pradesh, India
- Growth, Host
Hale, O. M.; Stewart, T. B.; and Johnson, J. C., jr., 1977, Research Bull. (203) Agric. Exper. Stations Univ. Georgia, 3-21
Strongyloides ransomi, Ascaris suum, naturally infected gilt and/or barrow crossbred pigs, superimposed S. ransomi infection, differences in performance with diets of varying levels of protein and vitamins not significant
- Growth, Host
Heath, A. C. G.; et al., 1977, N. Zealand J. Agric. Research, v. 20 (1), 19-22
Haemaphysalis longicornis, dipped and undipped sheep, tick counts, blood analysis, live-weight gain, wool production and quality: New Zealand
- Growth, Host
Helle, O.; and Tharaldsen, J., 1976, Vet. Parasitol., v. 1 (4), 345-357
Ostertagia ostertagi and Cooperia spp. in young cattle during their first grazing season, free-living stages overwintered in sufficient numbers to cause reduced weight gain and clinical disease in early spring, thiabendazole treatment and move to clean pasture improved weight gain: Norway
- Growth, Host
Henriksen, Sv. Aa.; et al., 1976, Vet. Parasitol., v. 2 (3), 259-272
gastro-intestinal nematodes, young calves during first grazing season, infection levels, blood findings, body weight gains, comparison of animals grazing same pasture entire season with those moved in early July and between levamisole-treated and untreated animals: Denmark
- Growth, Host
Hope Cawdery, M. J.; et al., 1977, Brit. Vet. J., v. 133 (2), 145-159
Fasciola hepatica, initial and superimposed infection, beef cattle, feed intake, food conversion efficiency, liveweight gain
- Growth, Host
Horak, I. G.; Honer, M. R.; and Schroeder, J., 1976, J. South African Vet. Ass., v. 47 (4), 247-251
helminths and Oestrus ovis, merino sheep, treated at four-weekly intervals or strategically, live mass gains, wool production and fecal worm egg counts, compared with untreated controls: Eastern Transvaal Highveld
- Growth, Host
Insler, G. D.; and Roberts, L. S., 1976, Exper. Parasitol., v. 39 (3), 351-357
Hymenolepis diminuta, lack of pathogenicity in the healthy rat host, no difference in growth rate of infected vs. uninfected animals, "Since H. diminuta appears not to affect nutrient utilization or consumption in a healthy, unstressed host, at least on a gross level, it probably should be considered an endocommensal."
- Growth, Host
Jacobson, H. A.; and Kirkpatrick, R. L., 1974, J. Wildlife Dis., v. 10 (4), 384-391
comparison of selected physiological measurements in untreated parasitized cottontail rabbits and those treated with 1-tetramisole hydrochloride and 2,2-dichlorovinyl, dimethyl phosphate: Montgomery County, Virginia
- Growth, Host
James, B. L., 1968, J. Nat. Hist., v. 2 (1), 21-37
Parvatrema homoeotectum, percentage infection in Littorina saxatilis tenebrosa var. similis as affected by seasonal variations in host population density and correlation with host breeding cycle, migration, growth and mortality; brief comparisons with distribution in Microphallus similis and M. pygmaeus forms A and B: Twr Gwylanod, near Aberystwyth
- Growth, Host
John, D. T., 1974, Proc. Helminth. Soc. Washington, v. 41 (2), 121-126
Angiostrongylus cantonensis, mice (exper.), acquired immunity, weight loss occurred to a lesser degree in immunized mice, they experienced a greater leukocytosis
- Growth, Host
Johnson, J. C., jr.; Stewart, T. B.; and Hale, O. M., 1975, J. Parasitol., v. 61 (3), 517-524
responses of pigs to natural infections of Strongyloides ransomi and Ascaris suum and to superimposed artificial infection with Strongyloides ransomi: effects of breed (Duroc, Hampshire, Duroc-Hampshire crossbred), level of Strongyloides ransomi infection, and season (spring, fall) on performance of growing-finishing pigs

- Growth, Host
Jordan, H. E.; et al., 1977, Am. J. Vet. Research, v. 38 (8), 1157-1160
Ostertagia ostertagi, Cooperia, influence on energy efficiency in full-fed vs. maintenance-fed steers with high vs. low worm burdens (low worm burdens did not significantly effect energy utilization; in full-fed steers, energy retention was greater in steers with lower worm burdens; maintenance-fed steers were more heavily parasitized than full-fed steers)
- Growth, Host
Jose, D. G.; and Welch, J. S., 1970, Med. J. Australia, v. 1 (8), 349-356
possible role of intestinal parasitism in growth-retarded, anemic and malnourished Australian Aboriginal children, comparison with normal Aboriginal children: Queensland
- Growth, Host
Joyner, L. P.; et al., 1975, Avian Path., v. 4 (1), 17-33
Eimeria acervulina-infected chickens, amino acid malabsorption and intestinal leakage of plasma proteins, food intake and growth, results suggest that anorexia and protein leakage from gut are major factors in pathogenesis
- Growth, Host
Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
Litomosoides carinii, effect of host dietary fat content on growth and development of parasite and cotton rat hosts
- Growth, Host
Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
Litomosoides carinii, effect of protein-deficient diets on growth and development of parasites and cotton rat hosts
- Growth, Host
Kirton, A. H.; et al., 1976, N. Zealand Vet. J., v. 24 (4), 59-64
Dictyocaulus sp., lambs, seasonal incidence of enzootic pneumonia, effect on growth, little economic significance in present flock
- Growth, Host
Kyaw, A.; and Oo, M., 1976, Jap. J. Med. Sc. and Biol., v. 29 (2), 105-108
increase in hepatic lysosomal enzyme levels in mice infected with Hymenolepis diminuta, effects on growth and metabolism
- Growth, Host
Lee, C. M.; Aboko-Cole, G. F.; and Fletcher, J., 1976, Ztschr. Parasitenk., v. 49 (1), 1-10
Trypanosoma musculi, vitamin A-deficient mice, increased parasitemia, delayed action of reproductive-inhibiting and terminal lytic antibodies, increase in body weight gains and food consumption
- Growth, Host
Lee, C. M.; George, Y. G.; and Aboko-Cole, G. F., 1977, Internat. J. Biochem., v. 8 (7), 525-529
Trypanosoma lewisi in iron-deficient rats, parasitemias, trypanosome cell size and antibody formation, host body weight gains and food consumption
- Growth, Host
Leinati, L.; Oberosler, R.; and Beber, L., 1972, Atti Soc. Ital. Sc. Vet., v. 26, 479-481
Hypoderm[a], bovine, control, disinfection of mountain pastures by calcium cyanamide and by grazing of poultry, increased weight gain by cattle
- Growth, Host
Levine, N. D.; et al., 1975, Am. J. Vet. Research, v. 36 (10), 1459-1464
lambs grazing with their ewes under 2 pasture rotation systems, lambs under rotation had more nematodes and gained less weight than nonrotated control lambs, rotation is not recommended to control nematode parasitism of sheep in Illinois
- Growth, Host
Luengo, J.; and Barriga, O. O., 1966, Bol. Chileno Parasitol., v. 21 (1), 2-7
Trichinella spiralis in Rattus norvegicus (exper.), high single dose of thiabendazole effective on enteral infection but showed little effect on migrating larvae and no effect on encysted parasites, increased weight gain in treated rats
- Growth, Host
McDougal, L. R., 1976, Poultry Science, v. 55 (6), 2442-2447
Eimeria adenoides, E. meleagritidis, E. gallopavonis, turkeys, monensin, good efficacy, increased host growth
- Growth, Host
McLeod, C. C., 1976, N. Zealand J. Exper. Agric., v. 4 (2), 215-218
thiabendazole, tetramisole, pre- and post-weaning anthelmintic drenching, live-weight gain, wool weight in Romney ewe lambs with strongyle infections better in treated than in untreated lambs, no significant differences between anthelmintics
- Growth, Host
McLeod, C. C.; Wolff, J. E.; and Schwarz, G., 1976, N. Zealand J. Exper. Agric., v. 4 (2), 219-225
thiabendazole and selenium drenching, weaned Merino or halfbred ewe lambs, grazing on pasture or in paddocks with supplementary feeding, live-weight gain, wool weights: South Canterbury
- Growth, Host
Malczewski, A.; et al., 1975, Med. Wet., v. 31 (12), 728-731
helminths, sheep, treatment with Nilverm and Nilzan more effective in May and November than in May and September, higher economic profit, increased weight gains and shearing yields: Olsztyn province

- Growth, Host
Manuel, M. F.; and Alcarde, J. A., 1975, Philippine J. Vet. Med., v. 13 (1-2), 156-162
coccidiosis, broilers raised on deep litter, Amprol Plus, Zoamix, NF-180, comparative drug efficacies, growth and mortality rates
- Growth, Host
Nadakal, A. M.; et al., 1975, Riv. Parassitol., Roma, v. 36 (1), 41-46
Raillietina tetragona, four breeds of domestic chickens, calcium deficient diets, significant depression of weight gains, breed differences in calcium content of worms and total leucocyte values of host birds
- Growth, Host
Nowosad, B., 1975, Zeszyty Nauk. Akad. Rolnicz. Krakow. (98), Zootech (15), 187-218
lambs, experimental infection with various combinations and doses of gastrointestinal helminths, lowered body weight and changes in host measurements, equivalent losses in slaughter value; poor coordination between number of larvae in experimental dose and number of eggs in feces in standard techniques of fecal examination
- Growth, Host
Okao, E. T., 1975, Trop. Animal Health and Prod., v. 7 (3), 157-163
Fasciola gigantica, live weight gains of chronically infected cattle (*Bos indicus*) following treatment with oxclozanide, rafoxanide, hexachlorophene and nitroxylin, optimum frequency of treatment is 3 times a year, chemotherapy as a control measure is economically beneficial to livestock industry in Uganda
- Growth, Host
Pascoe, D.; and Matthey, D., 1977, Ztschr. Parasitenk., v. 51 (2), pp. 179-186
Schistocephalus solidus-parasitized *Gasterosteus aculeatus*, 3 different feeding levels, compared with parasite-free fish; parasitized fish on restricted diets died before parasite-free fish; feeding rate to maintain total body weight higher in parasite-free fish, may reflect greater gross efficiency of parasite
- Growth, Host
Pearre, S., jr., 1976, J. Marine Biol. Ass. United Kingdom, v. 56 (2), 503-513
hemiurid larvae, gigantism and partial parasitic castration of *Sagitta* spp., incidence, seasonal distribution, copepod prey *Paracalanus* sp. possible vector of infection: off Spanish Mediterranean coast
- Growth, Host
Phares, C. K.; and Carroll, R. M., 1977, J. Parasitol., v. 63 (4), 690-693
Spirometra mansonoides, lipogenic effect of plerocercoid infection in intact hamsters, distinctly unlike lipolytic effect reported for mammalian growth hormone
- Growth, Host
Phares, C. K.; Hofert, J. F.; and Pettinger, C. L., 1976, Gen. and Comp. Endocrinol., v. 28 (1), 103-106
Spirometra mansonoides, hypophysectomized-plerocercoid-infected rats, growth stimulation of lymphatic tissue: in vitro incorporation of ³H-labeled nucleosides into DNA and RNA of isolated thymocytes; spleen thymidine kinase activity
- Growth, Host
Ponyi, J.; Biro, P.; and Murai, E., 1972, Parasitol. Hungar., v. 5, 383-408
internal helminths of *Acerina cernua* (intestine), incidence survey, seasonal variations and host growth and development in relationship to parasitic burden: Lake Balaton, Hungary
- Growth, Host
Pout, D. D., 1974, Brit. Vet. J., v. 130 (1), 54-60
Eimeria crandallis, *Eimeria* arloingi 'B', lambs (exper.), effects on host growth, food intake, faecal oocyst production and clinical symptoms; results indicate that diet may influence the total body response to infection in experimental animals
- Growth, Host
Powlesland, R. G., 1977, N. Zealand J. Zool., v. 4 (1), 85-94
Ornithonyssus bursa on *Sturnus vulgaris*, no demonstrable effects on growth rate, mortality, blood picture or lipid stores of nestlings; seasonal pattern of infestation parallels starling breeding season: Manawatu region, New Zealand
- Growth, Host
Rawstron, R. R., 1971, Calif. Fish and Game, v. 57 (4), 253-256
hatchery-raised *Salmo gairdneri*, good harvest and survival rates and good growth despite heavy infestation with *Sanguinicola davisi*: Merle Collins Reservoir, Yuba County, California
- Growth, Host
Reid, W. M.; and Johnson, J., 1974, Folia Vet. Latina, v. 4 (4), 585-602
Eimeria brunetti in chickens, severity of pathogenicity, lesion scoring and weight gains, economic losses, diagnostic techniques
- Growth, Host
Ruegamer, W. R.; and Phares, C. K., 1974, Proc. Soc. Exper. Biol. and Med., v. 146 (3), 698-702
Spirometra mansonoides, determination of age at which rats (exper.) show growth response to infections with plerocercoids, results show that slowly-growing intact female rats (96-133 days old) can be made to grow faster than uninfected controls and that they utilize their food more efficiently for growth, similar preliminary findings in infected males

- Growth, Host
Ruff, M. D.; Reid, W. M.; and Rahn, A. P., 1976, *Am. J. Vet. Research*, v. 37 (8), 963-967
coccidiosis in broilers, different levels of monensin, body weight gain, feed conversion, lesion score, mortality, skin and blood pigmentation
- Growth, Host
Schillhorn van Veen, T.; and Brinckman, W. L., 1975, *Samaru Agric. Newsletter*, v. 17 (2), 70-74
Haemonchus contortus, *Trichostrongylus* sp., *Oesophagostomum* sp., lambs, regular drenching with thiabendazole at regular intervals during rainy season, better weight gain, cost/benefit; possible influence of resistance and breed of sheep
- Growth, Host
Scott, K. J.; and Bullock, W. L., 1974, *Proc. Helminth. Soc. Washington*, v. 41 (2), 256-257
Bothriomonas sturionis, variation in rate of infection, seasonal peak, gonads absent in infected female *Psammonyx nobilis*, no effect on size: Foss Beach, New Hampshire; Gerrish Island and Goose Rocks Beach, Maine
- Growth, Host
Sen, D. K.; and Jones, W. R., 1973, *J. Protozool.*, v. 20 (4), 504
Trypanosoma duttoni, growth response of mice on normal vs. pyridoxine-deficient diet compared with uninfected controls
- Growth, Host
Sen, D. K.; and Jones, W. R., 1974, *J. Protozool.*, v. 21 (3), 446 [Abstract]
Trypanosoma duttoni, castrated and uncastrated mice on two different diets, growth response and parasitemia
- Growth, Host
Sheahan, B. J.; O'Connor, P. J.; and Kelly, E. P., 1974, *Vet. Rec.*, v. 95 (8), 169-170
Sarcoptes scabiei, pigs, compensatory weight gains following treatment for sarcoptic mange; ears of pigs should be treated during spraying or dipping
- Growth, Host
Sinclair, K. B., 1975, *Research Vet. Sc.*, v. 19 (3), 296-303
Fasciola hepatica, sheep exposed to preliminary and challenge infections, pathophysiology (circulating eosinophils, plasma proteins, and glutamate dehydrogenase, voluntary dry matter intake, plasma loss in feces), no evidence of acquired resistance to physiological effects of infection
- Growth, Host
Sutanto, A. H.; Sembiring, L.; and Simatupang, J., 1976, *Paediat. Indonesiana*, v. 16 (11-12), 453-463
field survey of ancylostomiasis in school children, no evidence of effect on height or weight, tetrachlorethylene therapy only 69% successful: Indonesia
- Growth, Host
Sykes, A. H., 1970, *Proc. Nutrition Soc.*, v. 29 (1), 16 A
Eimeria acervulina, infection in chicks (exper.) resulted in reduction of weight gain, some actual weight loss and impaired utilization of absorbed energy
- Growth, Host
Sykes, A. R.; and Coop, R. L., 1976, *J. Agric. Sc.*, v. 86 (3), 507-515
Trichostrongylus colubriformis larvae, lambs (exper.), food intake and utilization after parasitic damage to small intestine, body weight changes, reduced host mineral metabolism
- Growth, Host
Sykes, A. R.; and Coop, R. L., 1977, *J. Agric. Sc.*, v. 88 (3), 671-677
Ostertagia circumcincta larvae, daily dosing of growing sheep, reduction of food intake and utilization resulting from abomasal damage; reduced weight gain
- Growth, Host
Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1977, *J. Comp. Path.*, v. 87 (4), 521-529
Ostertagia circumcincta, chronic sub-clinical parasitism of lambs, significantly reduces skeletal growth
- Growth, Host
Tharaldsen, J., 1976, *Acta Vet. Scand.*, v. 17, Suppl. 61, 1-21
trichostrongylid infections, calves, survival of larvae on pasture, occurrence of larvae not influenced by artificial irrigation; treatment with thiabendazole did not effectively control infection due to overwintering larvae, neither improved weight gain nor reduced egg production: Norway
- Growth, Host
Thomas, R. J.; and Waller, P. J., 1975, *Vet. Rec.*, v. 97 (24), 468-471
Ostertagia circumcincta, lambs naturally infected on pasture from spring to autumn, faecal egg counts, worm counts, serum pepsinogen levels, body weights, correlations; serum pepsinogen estimations as possible diagnostic test
- Growth, Host
Vega-Franco, L.; et al., 1976, *Bol. Med. Hosp. Inf.*, v. 33 (2), 293-299
Giardia lamblia, d-xylose absorption and growth patterns in infected children before and after tinidazole, comparison with normal controls: Mexico
- Growth, Host
Waldhalm, D. G.; and Hall, R. F., 1977, *J. Am. Vet. Med. Ass.*, v. 171 (5), 429-430
haloxon, thiabendazole, levamisole, feedlot cattle, light nematode infections, no significant difference in weight gains in treated or untreated groups, 113-day feeding period
- Growth, Host
Weidner, E., 1976, *J. Protozool.*, v. 23 (2), 234-238
Glugea stephani-induced xenoma in *Pseudopleuronectes americanus*, ultrastructure of peripheral zone

Growth, Host

Williams, J. C.; and Knox, J. W., 1976, Am. J. Vet. Research, v. 37 (4), 453-464

failure of stocker cattle to achieve projected weight gains at high stocking rates on Coastal bermudagrass pastures even with supplemental feeding and anthelmintic control of parasitism

Growth, Host

Williams, R. E.; and Hair, J. A., 1976, Ann. Entom. Soc. Am., v. 69 (3), 403-404

Amblyomma maculatum, eastern meadowlarks, statistical analysis showed no significant correlations to exist between measured parameters (weight, total solid plasma protein, hemoglobin, packed cell volume) and tick infestation levels

Growth, Host

Williams, R. E.; Hair, J. A.; and Buckner, R. G., 1977, J. Econom. Entom., v. 70 (2), 229-233

Amblyomma maculatum, effects of high and low tick infestations on blood composition and weights of steers fed a standardized diet; decreased numbers of ticks on cattle over time, possibly due to acquired resistance

Growth, Host

Wyatt, R. D.; Ruff, M. D.; and Page, R. K., 1975, Avian Dis., v. 19 (4), 730-740

chicks, interaction of aflatoxin with *Eimeria tenella* infection and monensin: *E. tenella* and aflatoxin in combination significantly increased mortality and weight depression, and caused more severely reduced hemoglobin, packed cell volume, and plasma pigmentation; monensin sodium did not completely prevent mortality and weight depression in a mixed infection; coccidial lesion scores were less for combination of *E. tenella* and aflatoxicosis than for coccidiosis alone

Growth, Host

Ziomko, I.; and Paciejewski, S., 1976, Med. Vet., v. 32 (12), 750-752

Trichocephalus suis, pigs, subclinical infection caused decrease in weight gains

Growth, Parasite

Ahmad, H.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (1), 36-41

Paragonimus siamensis, migration route, development, and egg output in experimental host, measurements of recovered mature worms

Growth, Parasite

Andersen, K., 1973, Norwegian J. Zool., v. 21 (4), 341-350

Diphyllobothrium dendriticum plerocercoids in *Mesocricetus auratus*, *Larus canus*, and *Alopex lagopus* (exper. in all), frequency of primary vs. secondary strobilae in relation to host, age of worms, and density of infection compared with *D. latum* in *M. auratus* and *A. lagopus* and *D. ditremum* in *M. auratus*, primary strobilae appear in some individuals in response to unfavorable conditions; regeneration and/or growth studies show that rounded posterior segment in young *D. dendriticum* is not necessarily posterior 'end' of plerocercoid

Growth, Parasite

Ardehali, S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 266-267 [Demonstration]

Leishmania enriettii, *L. tropica* major, culture forms, possible species differentiation by enumeration of free moving promastigotes growing in presence of rabbit antisera, trials with homologous and heterologous antisera

Growth, Parasite

Audy, J. R.; Radovsky, F. J.; and Vercammen-Grandjean, P. H., 1972, J. Med. Entom., v. 9 (6), 487-494

neosomy: radical intrastadial metamorphosis in arthropods, definitions, examples, association with parasitic existence, evolutionary significance, review

Growth, Parasite

Balasingam, E., 1964, Med. J. Malaya, v. 19 (1) 46-47

growth and morphology of *Placoconus lotoris*

Growth, Parasite

Baron, R. W.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (1), 37-42

Echinococcus multilocularis in T-cell depleted A/J mice, adult thymectomy enhances metastasis but not growth of cysts, combined thymectomy and antithymocyte serum enhances both cyst growth and metastasis, suggested that cell-mediated immunity controls early phase of infection

Growth, Parasite

Bennett, C. E., 1977, Exper. Parasitol., v. 41 (1), 43-53

Fasciola hepatica during migration in mouse, development of parasite excretory and parenchymal systems

Growth, Parasite

Beveridge, I.; and Rickard, M. D., 1976, Internat. J. Parasitol., v. 6 (1), 55-59

Taenia pisiformis in rabbits (exper.), growth and development of rostellar hooks, hook differentiation and size related to age of cysticerci, ability to resist effects of digestive enzymes in vitro, and ability to infect dogs, variability in hook sizes attributable to external influences suggests caution in use of hook lengths as taxonomic characters

Growth, Parasite

Bogitsh, B. J.; and Carter, O. S., 1977, Tr. Am. Micr. Soc., v. 96 (2), 219-227

Schistosoma mansoni schistosomules, in vitro development of digestive tract, ultrastructure of esophagus, esophageal gland, and cecum; ingestion of red blood cells stimulates 'dense granule' synthesis and increased growth of cecal region

Growth, Parasite

Bretana, A.; and O'Daly, J. A., 1976, Internat. J. Parasitol., v. 6 (5), 379-386

Trypanosoma cruzi, uptake of proteins from fetal calf serum needed for growth, methods for labelling and subsequent localization (immunofluorescence; autoradiography; colloidal gold)

- Growth, Parasite
Caceres, O.; and Fernandes, J. F., 1976, Rev. Brasil. Biol., v. 36 (2), 397-410
Trypanosoma cruzi, glucose metabolism, culture under fixed conditions, growth and differentiation
- Growth, Parasite
Castro, G. A.; et al., 1974, Proc. Soc. Exper. Biol. and Med., v. 146 (3), 703-706
Trichinella spiralis, Hymenolepis diminuta, rats (exper.) in which all nutrients were derived from parenteral or exocrino-enteric circulation rather than by ingesting food orally; H. diminuta failed to develop and T. spiralis showed differences from normal population size thus suggesting the importance of food in the host intestine in regulating development of tissue and lumen-dwelling parasites
- Growth, Parasite
Cawthorn, R. J.; and Anderson, R. C., 1976, Canad. J. Zool., v. 54 (4), 442-448
Physaloptera maxillarlarvae in Acheta pennsylvanicus, effects of temperature, age of host, and previous infection on parasite development; resulting infectivity to Mephitis mephitis
- Growth, Parasite
Chang, K.-P., 1975, J. Protozool., v. 22 (2), 271-276
Blastocrithidia culicis, Crithidia oncopelti, intracellular symbiotes can be eliminated by single chloramphenicol treatment with subsequent reduced growth of flagellates
- Growth, Parasite
Chang, K.-P., 1976, J. Protozool., v. 23 (2), 241-244
Blastocrithidia culicis, Crithidia oncopelti, symbiote-free strains: liver extract as essential growth factor in defined medium; cross-reactivity in reciprocal agglutination test with symbiote-containing strains indicates loss of symbiotes does not affect antigenic identity
- Growth, Parasite
Chernin, J., 1975, J. Helminth., v. 49 (4), 297-300
Taenia crassiceps, effects of strain and sex of mice and strain of metacestodes on volumes of metacestodes recovered
- Growth, Parasite
Cioli, D.; Knopf, P. M.; and Senft, A. W., 1977, Internat. J. Parasitol., v. 7 (4), 293-298
Schistosoma mansoni, survival, growth, and egg-laying capacity of worms surgically transplanted into permissive and nonpermissive hosts (from mice into rats or from rats into hamsters), results show that limitations imposed by nonpermissive hosts are reversible and that they affect maintenance of adults as well as progression of development
- Growth, Parasite
Coadwell, W. J.; and Ward, P. F. V., 1977, Parasitology, v. 74 (2), 121-132
Haemonchus contortus, sheep (exper.), suggested that cyclic change in parasite growth pattern and arrested development is controlled by seasonal variation in concentration of substance(s) in host blood, sex of host and duration of infection had no effect on parasite length, age of host did relate to parasite length but relationship may have been an artifact
- Growth, Parasite
Colgan, G. J.; and Nollen, P. M., 1977, J. Parasitol., v. 63 (4), 675-680
Philophthalmus hegeneri, multiple and monomiracidial infections in chicks, parasite growth and development, effects of transplanting adults from isolated to multiple and from multiple to isolated situations at various times during growth, transplantation of isolated Philophthalmus hegeneri with single adults of Philophthalmus megalurus did not stimulate growth in either species
- Growth, Parasite
Dewey, V. C.; and Kidder, G. W., 1977, Canad. J. Biochem., v. 55 (1), 110-112
Crithidia fasciculata, inhibited growth with adenine analog, 4-aminopyrazolo(3,4-d)pyrimidine, adenine plus a pyrimidine (or a pyrimidine derivative) necessary for reversal of inhibition, adenine analog not inhibitory to enzymes of pyrimidine biosynthetic pathway; if not for its untoward effects in mammals, 4-APP might be suggested as possible therapeutic agent in trypanosomal infections
- Growth, Parasite
Dohnalova, M.; and Kulda, J., 1977, J. Protozool., v. 24 (4), 50A [Abstract]
Tritrichomonas foetus, meagre respiration with erythritol as substrate, no stimulatory effect of erythritol on growth in vitro, results indicated that confinement of T. foetus to lumen of bovine uterus is not related to presence of erythritol at this site (in contrast to Brucella abortus)
- Growth, Parasite
Dunkley, L. C.; and Mettrick, D. F., 1976, Canad. J. Zool., v. 54 (7), 1073-1078
Hymenolepis diminuta, rat, effect of increasing host dietary carbohydrate uptake on growth of 14-day-old worms, comparison of glucose vs. cornstarch diets
- Growth, Parasite
Dutta, G. P.; and Yadava, J. N. S., 1976, Indian J. Med. Research, v. 64 (2), 224-228
interrelationship of pH and oxidation-reduction potential on growth of axenic Entamoeba histolytica and the influence of pH on amoebicidal activity of drugs
- Growth, Parasite
Elkins, C. A.; and Corkum, K. C., 1976, J. Wildlife Dis., v. 12 (2), 208-214
Crepidostomum isostomum and Phyllodistomum pearsei, growth dynamics (growth phases categorized by development and maturation of reproductive system) and seasonal prevalence, age of host and prevalence of infection
Aphredoderus sayanus : Whisky Bay, west of Intercoastal Canal, West Baton Rouge Parish, Louisiana

- Growth, Parasites
Ellis, J. C.; Bourns, T. K. R.; and Rau, M. E., 1975, *Canad. J. Zool.*, v. 53 (12), 1803-1811
Trichobilharzia ocellata, previously infected *Anas platyrhynchos* and *A. rubripes* exposed to homologous challenge infections, migration, growth and development, and condition compared to initial infection
- Growth, Parasite
Ferretti, G.; et al., 1972, *Riv. Parassitol.*, Roma, v. 33 (3), 183-202
Vampirolepis nana, mathematical expression of parasite growth as function of population density: development in mice infected with 8, 24, 80, or 240 eggs; development in mice of various inbred strains; development in relation to host sex and age and duration of infection; development from different pools of eggs
- Growth, Parasite
Fioravanti, C. F.; and MacInnis, A. J., 1976, *J. Parasitol.*, v. 62 (5), 749-755
Hymenolepis diminuta in vitro, farnesol and other prenyl substances had no growth-promoting effect and were toxic at higher concentrations
- Growth, Parasite
Fletcher, K. A.; Canning, M. V.; and Theakston, R. D. G., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 125-130
Plasmodium berghei-infected mice, rats and hamsters (all exper.) and *P. knowlesi*-infected monkeys (exper.), absence of glucose-6-phosphate activity of "parasite origin" and presence of 6-phosphogluconate dehydrogenases of "parasite origin" in erythrocytes of infected animals, possible relationships in erythrocyte metabolism and parasite growth
- Growth, Parasite
Foreyt, W. J.; and Todd, A. C., 1976, *J. Parasitol.*, v. 62 (1), 26-32
Fascioloides magna, comparative development and pathology in white-tailed deer, cattle, and sheep: growth rate, percentage recovery, character of infection
- Growth, Parasite
Foris, G., 1976, *Acta Microbiol. Acad. Scient. Hungar.*, v. 23 (3), 271-276
Trypanosoma equiperdum in endotoxin-treated and non-treated rats, relationships of total dose of serially administered endotoxin, number of treatments, body weight of rats and germ count of inoculum to length of lag phase of trypanosomal growth
- Growth, Parasite
Gaur, S. N. S.; and Dutt, S. C., 1975, *Indian Vet. J.*, v. 52 (6), 474-477
mice fed with irradiated and non-irradiated *Ascaris suum* eggs, reduced size, motility, and longevity of resulting migrating *A. suum* juveniles recovered from liver and lungs
- Growth, Parasite
Ghandour, A. M.; and Webbe, G., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 10 [Demonstration]
Schistosoma mansoni, growth and development inhibited when irradiated with ultra-violet light
- Growth, Parasite
Giannini, M. S., 1974, *J. Protozool.*, v. 21 (4), 521-527
Leishmania donovani, promastigote-initiated infection in *Mesocricetus auratus*, infectivity in relation to host age at time of inoculation, growth phase of promastigotes at harvest, and frequency of subculture
- Growth, Parasite
Gillig, C. J. III, 1977, *J. Protozool.*, v. 24 (3), 406-411
Leishmania donovani, adaptation to in vitro cultivation at 37 C
- Growth, Parasite
Gingrich, R. E., 1973, *J. Med. Entom.*, v. 10 (5), 482-487
Hypoderma lineatum, effects of host diet and immunosuppressant treatments (rabbit anti-mouse lymphocyte serum and whole-body irradiation) on survival and growth of larvae and on susceptibility of *Mus musculus* to infestation
- Growth, Parasite
Goldberg, B.; et al., 1974, *J. Protozool.*, v. 21 (2), 322-326
Leptomonas sp., inhibition by several standard antiprotozoal drugs of growth and oxygen uptake of cells and particulate preparations, possible use as model organism for screening antitrypanosomatid agents as compared to *Crithidia fasciculata*
- Growth, Parasite
Hidalgo, R. J., 1975, *Am. J. Vet. Research*, v. 36 (5), 635-640
Anaplasma marginale, propagation in bovine lymph node cell culture, direct fluorescent antibody technique used for detection of organism in culture and combined with standard microscopic count procedure to obtain numerical estimates of organism as criteria of growth, effect of oxytetracycline HCl
- Growth, Parasite
Hommel, M.; Peters, W.; and Chance, M. L., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 9-10 [Demonstration]
Leishmania braziliensis braziliensis, growth and development in immunosuppressed hamsters and nude mice, pathology
- Growth, Parasite
Howard, R. J., 1976, *Parasitology*, v. 72 (3), 317-323
Hymenolepis microstoma, mice infected with 1, 5, or 10 cysticercoids, infections terminated after 5, 16, or 30 days, challenge with 6 cysticercoids, growth of worms in secondary infections decreased as either intensity or duration of primary infections increased
- Growth, Parasite
Huehner, M. K.; and Etges, F. G., 1977, *J. Parasitol.*, v. 63 (4), 669-674
Aspidogaster conchicola, life cycle and development in *Viviparus malleatus* and *Goniobasis livescens*, growth phases and allometry

Growth, Parasite

- Injeyan, H. S.; and Meerovitch, E., 1974, J. Protozool., v. 21 (5), 738-742
Crithidia sp., inhibition of overall growth and macromolecular synthesis by juvenile hormone, inhibition of RNA synthesis of particular interest, implications for mode of action in insect systems

Growth, Parasite

- James, C.; and Webbe, G., 1975, J. Helminth., v. 49 (3), 191-197
Schistosoma haematobium in hamsters, comparison of South African and Sudanese strains: host mortality, recovery of adult worms, growth of worms, uterine egg counts, distribution of eggs in hamster tissues

Growth, Parasite

- Kemp, D. H.; et al., 1976, Parasitology, v. 73 (1), 123-136
Boophilus microplus on British breed cattle with different resistance levels, growth and attachment behaviour of larvae, desiccation of larvae in environment of host skin, movement to and accumulation in favored sites

Growth, Parasite

- Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]
Litomosoides carinii, effect of host dietary fat content on growth and development of parasite and cotton rat hosts

Growth, Parasite

- Khan, Z. I.; and De Rycke, P. H., 1975, Biol. Jaarb., Gent, v. 43, 151-172
Hymenolepis microstoma, in vitro cultivation, artificially excysted cysticercoids to egg producing adults, role of serum for strobilization and gametogenesis (results suggest success depends upon presence of certain heme compounds in the serum)

Growth, Parasite

- Khan, Z. I.; and De Rycke, P. H., 1976, Ztschr. Parasitenk., v. 49 (3), 253-261
Hymenolepis microstoma in vitro, effect of haemoglobin, hemin and bilirubin on strobilization and maturation

Growth, Parasite

- Knight, S. A., 1976, J. Parasitol., v. 62 (4), 515-522
Herpetomonas megaseliae, cultures grown with hydroxyurea (inhibitor of DNA synthesis), differences in population number, kinetoplast number and position, and pellicular morphology, net effects of hydroxyurea are enhanced differentiation and abortive cytokinesis

Growth, Parasite

- Komuniecki, R.; and Roberts, L. S., 1975, J. Parasitol., v. 61 (3), 427-433
Hymenolepis diminuta, roughage and carbohydrate content of host diet for optimal parasite growth and development

Growth, Parasite

- Kowalski, J. C.; and Thorson, R. E., 1976, Internat. J. Parasitol., v. 6 (4), 327-331
Mesocostoides corti tetrathyridia, growth and asexual reproduction in vivo and in vitro as affected by certain lipid compounds (Williams and Law mixture, farnesol, ecdysterone, cholesterol, stigmasterol, lipid extracts from *M. corti* and *Hymenolepis diminuta*)

Growth, Parasite

- Kulda, J.; and Budilova, M., 1977, J. Protozool., v. 24 (4), 51A [Abstract]
Tritrichomonas foetus, multiplication of parasites in mouse peritoneal cavity stimulated by ferric ammonium citrate, indicates importance of trichomonad iron metabolism in host-parasite relationships

Growth, Parasite

- Kurtti, T. J.; and Brooks, M. A., 1977, J. Invert. Path., v. 29 (2), 126-132
 Microsporida [sp.], growth, development, and fumagillin sensitivity in vitro in moth (*Heliothis zea*) cell culture,
Malacosoma disstria: northern Minnesota

Growth, Parasite

- Lara, S. I. M.; de Oliveira, C. M. B.; and Porto, J. C. A., 1976, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 28 (1), 93-99
Haemonchus sp., sheep (exper.), cobalt sulfate diet supplement, increased production and size of eggs, lower number of worms in autopsy

Growth, Parasite

- Lawson, R.; and Draskau, T., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 289 [Demonstration]
Schistosoma mansoni schistosomula, cine photography used to investigate changes in body shape and in the pattern of activity during migration within the host, worm growth begins when worms reach the host liver

Growth, Parasite

- Lee, J. C., 1972, Nettai Igaku (Trop. Med.), v. 14 (2), 97-110
Trichomonas vaginalis, in vitro growth inhibiting effects of 8 antitrichomonal drugs; therapeutic effects of trichomycin, piperazinotazole, metronidazole and nimorazole against abscess formation in mice (exper.)

Growth, Parasite

- Leon, W.; Brun, R.; and Krassner, S. M., 1977, J. Protozool., v. 24 (3), 444-448
Leishmania tarentolae, effect of Berenil on growth, on buoyant density of kinetoplast DNA, on dyskinetoplasty at ultrastructural level, and on cell respiration, results suggest that Berenil adversely affects mitochondrial respiratory activity

Growth, Parasite

- Long, P. L., 1973, Folia Vet. Latina, v. 3 (1), 89-109
Eimeria tenella, *Eimeria mivati*, growth in developing chick embryos and cultured cells, incubation temperature and route of inoculation, testing of anticoccidials, serial passage in embryos, review

- Growth, Parasite
Lui, A.; and Znidaric, D., 1972, Acta Parasitol. Iugoslavica, v. 3 (2), 97-103
Moniezia expansa, growth and development of strobila
- Growth, Parasite
McLaughlin, J. D., 1975, Canad. J. Zool., v. 53 (12), 1892-1897
Hymenolepis hopkinsi, establishment, growth, and development in Anas platyrhynchos (caeca) (exper.)
- Growth, Parasite
McVicar, A. H., 1977, Internat. J. Parasitol., v. 7 (6), 439-442
Acanthobothrium quadripartitum, bothridial hooks, growth characteristics throughout development, significance of measurements of different hook components in diagnosis of Acanthobothrium species
- Growth, Parasite
Marr, J. L., 1976, Proc. Indiana Acad. Sc., v. 85, 1975, 411-417
Tritrichomonas suis, in vitro culture in chick chorio-allantoic fluid resulted in lower numbers and smaller individuals than in commercial C.P.L.M. medium; difference perhaps based on different carbohydrate utilization
- Growth, Parasite
Mikacic, D., 1973, Acta Parasitol. Iugoslavica, v. 4 (1), 25-26
Fasciola hepatica, growth in rabbits (exper.), size not reliable criterion for estimating age without large number of specimens
- Growth, Parasite
Mills, C. A., 1976, Parasitology, v. 73 (2), vi-vii [Abstract]
Transversotrema patialense, survival and fecundity on Brachydanio rerio (exper.), age-dependent but not density-dependent, temperature optimum at 23°C., survival reduced on small hosts, growth in size of adult fluke
- Growth, Parasite
Motomura, I.; and Jo, K., 1970, Netti Igaku (Trop. Med.), v. 12 (2), 41-50
Toxoplasma gondii, cyst distribution and development within brain of infected mice, statistics of numbers of toxoplasmas within a single brain cyst
- Growth, Parasite
Nielsen, M. H., 1976, Acta Path. et Microbiol. Scand., v. 84B (4), 205-216
fine structure of Trichomonas vaginalis cells obtained from exponential phase of growth and from stationary culture, comparative study of endocytotic capacity and surface coats of cells from two types of culture
- Growth, Parasite
Novak, M., 1976, Experientia, v. 32 (12), 1529-1530
Taenia crassiceps, gonadectomy of mouse hosts inhibited asexual reproduction of cysticerci considerably and increased the average size of the larvae
- Growth, Parasite
O'Daly, J. A., 1976, J. Protozool., v. 23 (4), 577-583
Trypanosoma cruzi, division and epimastigote-to-trypomastigote transformation in vitro, growth-stimulating capacities of fetal calf serum fractions and proteins
- Growth, Parasite
Patnaik, B., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 457-466
Stephanofilaria assamensis, life cycle completed by experimental reproduction of typical humpsores lesion on a calf using laboratory-raised Musca conducens as vectors, parasite growth slow
- Growth, Parasite
Phillips, R. S.; Rahman, A. K.; and Wilson, R. J. M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 432 [Demonstration]
Plasmodium falciparum, in vitro penetration of human red cells
- Growth, Parasite
Phillips, R. S.; Trigg, P. I.; and Gutteridge, W. E., 1973, Isotopes and Radiation Parasitol. III, 185-186
Plasmodium knowlesi-infected red cells exposed to gamma irradiation and incubated in vitro culture, growth, rate of incorporation of radiotracers into parasite DNA, RNA, and protein, brief note
- Growth, Parasite
Rachford, F. W., 1976, Exper. Parasitol., v. 39 (3), 377-381
Angiostrongylus cantonensis, larval growth and development in Lymnaea palustris
- Growth, Parasite
Raibaut, A.; Ben Hassine, O. K.; and Prunus, G., [1976], Bull. Soc. Zool. France, v. 100 (4), 1975, 427-437
Ergasilus nanus, Mugil cephalus (gills), infestation dependent upon water temperature and salinity, parasite number increases with host size: lake Ischkeul, Tunisia
- Growth, Parasite
Rau, M. E.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (2), 151-153
Echinococcus multilocularis, radical resection of large established subcutaneous cysts results in 20-fold increase in weight of intrathoracic metastases in cotton rats; animals whose subcutaneous cysts had been surgically removed were, however, still fully resistant to subsequent intraperitoneal challenging inoculation with protoscolices
- Growth, Parasite
Rockett, C. L., 1975, J. Insect Physiol., v. 21 (12), 1939-1944
Ornithodoros tartakovskyi, limb regeneration and apolysis process studies by amputations at various stages; coagulation of haemolymph
- Growth, Parasite
Roitman, I., 1970, Rev. Microbiol., Sao Paulo, v. 1 (2), 93-94
Crithidia fasciculata, growth factors in culture medium above 33°C, lipid and osmotic requirements

Growth, Parasite

Sahba, G. H.; and Malek, E. A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 331-333

Schistosoma haematobium, comparison of extent of development and size of parasites in unisexual and bisexual infections, frequency of single sex male and female infections and level of maturity reached by female in absence of male

Growth, Parasite

Schuster, F. L.; and Rechthand, E., 1975, Antimicrob. Agents and Chemotherapy, v. 8 (5), 591-605

Naegleria fowleri, *N. gruberi*, amphotericin B, in vitro effects on growth, viability, and ultrastructure

Growth, Parasite

Shaw, J. R.; Marshall, I.; and Erasmus, D. A., 1977, Exper. Parasitol., v. 42 (1), 14-20

Schistosoma mansoni, in vitro stimulation by extracts of male worms of vitelline cell development and increase in length of female worms, data strongly suggest that development of female reproductive system is dependent to some extent on chemical factors present in the male

Growth, Parasite

Sheets, E. G.; and Krassner, S. M., 1974, J. Protozool., v. 21 (5), 742-744

Leishmania tarentolae in chemically defined medium containing taurine as sole sulfur source, chromate, selenate, and vanadate accelerated growth and enhanced incorporation of [³⁵S] taurine label into different cell fractions

Growth, Parasite

Shirley, M. W.; Millard, B. J.; and Long, P. L., 1977, Parasitology, v. 75 (2), 165-176

Eimeria acervulina var. *diminuta* and *Eimeria acervulina* var. *mivati* compared, growth in vitro, response to anticoccidial drugs, electrophoretic mobility profiles of four enzymes

Growth, Parasite

Shungu, D. M.; and Arnold, J. D., 1971, Tr. Roy. Soc. Trop. Med. and Hyg., v. 65 (5), 684-685 [Letter]

Plasmodium vinckei chabaudi adapted to rats (exper.), synchronization of growth and reproduction by photoperiodic rhythm

Growth, Parasite

Simon, M. W.; Rusnak, J. M.; and Mukkada, A. J., 1976, Exper. Parasitol., v. 39 (1), 51-58

Leishmania tropica promastigotes in vitro, sensitivity to toxic effects of bilirubin (loss of viability, decreased sugar and amino acid uptake, increased efflux of intracellular sugars, hexokinase activity, lowered respiration), results suggest irreversible damage to cell membrane, possible culture loss if bilirubin concentration of hemoglobin solution used is too high

Growth, Parasite

Singh, K.; and Dutta, G. P., 1977, Indian J. Med. Research, v. 65 (1), 51-57

Entamoeba histolytica, axenic cultures, effects on parasite growth of storage up to 21 days, different media constituents and dilution of medium

Growth, Parasite

Singh, M.; et al., 1976, J. Helminth., v. 50 (2), 103-110

Breinlia booliati, course of development in *Rattus sabanus* and in laboratory albino rat (both exper.), measurements of developing stages

Growth, Parasite

Smales, L. R., 1977, Internat. J. Parasitol., v. 7 (6), 449-456

Labiostrongylus eugenii, life history: embryogenesis, larval development within egg, hatching process, second and third stage larval morphology and development, optimal temperatures

Growth, Parasite

Smyth, J. D., 1977, Trop. and Geogr. Med., v. 29 (3), 314 [Abstract]

Echinococcus granulosus, *E. multilocularis*, variations in growth of protozoecles in in vitro cultures

Growth, Parasite

Steiger, R. F.; and Meshnick, S. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 441-443

Leishmania donovani, *L. braziliensis*, amino acid and glucose utilization by parasites

Growth, Parasite

Thompson, R. C. A., 1977, Internat. J. Parasitol., v. 7 (4), 281-285

Echinococcus granulosus, comparison of British horse and sheep strains in dogs, growth, segmentation, and maturation, emphasizes existence of physiological differences between the two strains

Growth, Parasite

Tomasovicova, O.; and Spaldonova, R., 1974, Biologia, Bratislava, s. B, Zool. (1), v. 29 (2), 159-162

Trichinella spiralis, intestinal phase in mice having experimental diabetes, longer worms than in normal mice but development not affected

Growth, Parasite

Tronchin, G.; and Schrevel, J., 1977, J. Protozool., v. 24 (1), 67-82

Gregarina blaberae, development of sporozoite, growth and development of trophozoite, ultrastructural study

Growth, Parasite

Ucros, H.; Leon, W.; and Krassner, S. M., 1977, Exper. Parasitol., v. 41 (2), 410-414

Trypanosoma cruzi, Y and Costa Rica strains compared, effect of ethidium bromide on growth, dyskinetoplasty, and respiration

Growth, Parasite

Varma, T. K.; and Rao, B. V., 1974, Indian Vet. J., v. 51 (1), 47-53

Taenia hydatigena, cystic and strobilar stages exposed to various doses of gamma irradiation, growth and development, preliminary immunization experiments, pups, lambs

Growth, Parasite

Voge, M.; et al., 1976, J. Parasitol., v. 62 (6), 951-954

Hymenolepis diminuta, growth of cysticercoids in vitro, development in presence of L-cysteine twice as rapid under 100% nitrogen as under air, no growth obtained with several other reducing agents, limited growth with ascorbic acid and dithiothreitol, homocysteine or coenzyme A as effective as L-cysteine in stimulating complete development

Growth, Parasite

Weidner, E., 1975, Ztschr. Parasitenk., v. 47 (1), 1-9

Encephalitozoon cuniculi, parasitophorous vacuoles within host peritoneal macrophages, growth by pinocytotic mechanism, movement of substances across vacuole boundary, absence of lysosomal fusion, electron microscopy

Growth, Parasite

Wilson, P. A. G., 1976, J. Zool., London, v. 179 (1), 135-141

Trichostrongylus retortaeformis growth patterns, moulting cycle, population growth profile

Growth, Parasite

Yoeli, M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 302-305

Plasmodium berghei NK65 strain, slow maturing primary exo-erythrocytic schizonts in laboratory bred *Thamnomys surdaster*, differentiation of this "slowed down" growth rhythm from that of "chronic" forms of *P. b. yoelii*

Growth, Parasite

Zaman, V., 1968, Med. J. Malaya, v. 22 (3), 195-197

Toxoplasma gondii invasion of sarcoma mouse ascites tumor, increased ascites caused decreased infection

Guadeloupe

Golvan, Y. J.; et al., 1977, Ann. Parasitol., v. 52 (3), 259-275

Schistosoma mansoni, factors involved in transmission, irrigation canals appear to be most dangerous source of contamination for human population: Guadeloupe

Guadeloupe

Junod, C., 1972, Medecine et Malad. Infect., v. 2 (2), 55-60

intestinal parasites of natives of Antilles now living in France, survey of 500 persons (*Strongyloides stercoralis*; *Necator americanus*; *Schistosoma mansoni*; *Trichocephalus*; *Ascaris*; *Trichostrongylus*; *Taenia saginata*; *Hymenolepis nana*; *Fasciola hepatica*; *Entamoeba histolytica* (minuta); *E. coli*; *E. hartmanni*; *Dientamoeba fragilis*; *Endolimax nana*; *Pseudolimax*; *Lambliia*; *Chilomastix*; *Enteromonas*)

Guatemala

Fazen, L. E.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 52-57

epidemiologic study of human microfilaruria in Guatemala, its frequency of occurrence and association with microfilariae in skin and its relationship to presence of subcutaneous nodules

Guiana, French. See French Guiana.

Gulf of Mexico

Johnson, S. K.; and Rogers, W. A., 1973, Bull. (445), Alabama Agric. Exper. Station, 74 pp.

Ergasilus, review of taxonomy, distribution: Gulf of Mexico drainage basins

Guyana

Lobel, H. O.; et al., 1976, J. Trop. Med. and Hyg., v. 79 (12), 275-284

human malaria, seroepidemiologic survey using the indirect haemagglutination test to determine success of eradication program: Guyana

Hair. See Skin.

Haiti

Miller, M. J.; Ratard, R. C.; and McNeeley, D. F., 1976, *J. Parasitol.*, v. 62 (5), 845-847
Wuchereria bancrofti, human, nocturnal microfilarial periodicity; presence of *Mansonella ozzardi* also reported: Haiti

Haiti

Titus, H., 1974, *Medecine Afrique Noire*, v. 21 (10), 685-692
Ancylostoma duodenale, human, epidemiologic and clinical aspects, case reports: Haiti

Hatching

Any, A. O., 1976, *Advances Parasitol.*, v. 14, 267-351
 physiological aspects of reproduction in nematodes, extensive review: range of reproductive phenomena; reproductive system; male and female gametes; physiology of fertilization; development; sex differentiation; nutrition and other factors in egg production; behavioural aspects of reproduction; reproductive phenomena and parasitism

Hatching

Barrett, J., 1976, *Parasitology*, v. 73 (1), 109-121
Ascaris lumbricoides eggs, studies on mechanism of induction of permeability, "no firm conclusions can be drawn"

Hatching

Bello, T. R.; Gaunt, S. D.; and Torbert, B. J., 1977, *J. Equine Med. and Surg.*, v. 1 (4), 126-130
Gasterophilus intestinalis, *G. nasalis*, horses, artificial hatching of bot eggs with warm water as environmental prophylaxis, critical evaluation, seasonal patterns of oviposition; trichlorfon + piperazine + phenothiazine, good results

Hatching

Bird, A. F., 1976, *Organ. Nematodes* (Croll), 107-137
 skeletal structures in nematodes (copulatory spicules, cuticle, egg shell): structure, chemical composition, ontogeny, function, review

Hatching

Bogitsh, B. J.; and Carter, C. E., 1975, *J. Parasitol.*, v. 61 (6), 1031-1040
Schistosoma mansoni, localization of soluble egg antigen in eggshell-enclosed miracidium, possible functions

Hatching

Burden, D. J.; and Hammet, N. C., 1976, *Vet. Parasitol.*, v. 2 (3), 307-311
Trichuris suis, comparison of infectivity of ova embryonated by 4 different methods, found that differences in method of culture profoundly affected ability of fully developed eggs to hatch and parasites to become established in pigs, ova of highest infectivity produced after culture in moist vermiculite

Hatching

Cable, R. M., 1972, *Zool. J. Linn. Soc., London*, v. 51, Suppl. 1, 1-18
 digenetic trematodes, behaviour, review (reproduction, hatching, penetration, response to toxic and host stimulation; cercarial emergence, swimming)

Hatching

Canning, E. U.; and Madhavi, R., 1977, *Parasitology*, v. 75 (3), 293-300
Unikaryon allocreadii and *Nosema gigantea* spp. nov. hyperparasitizing *Allocreadium fasciatus* in *Aplocheilus melastigma*, prevalence, hatching of spores, pathogenicity, possible mode of transmission: India

Hatching

Coman, B. J.; and Rickard, M. D., 1975, *Ztschr. Parasitenk.*, v. 47 (4), 237-248
Taenia spp., dogs, location in intestine, size, fecundity, egg hatching within intestine; infectivity of *T. pisiformis* eggs to rabbits (effects of canine intestinal secretions, intestinal passage and storage in feces); repeated *T. ovis* egg infection of puppies having no effect on subsequent cysticercus infection

Hatching

Coman, B. J.; and Rickard, M. D., 1977, *Internat. J. Parasitol.*, v. 7 (1), 15-20
Taenia pisiformis eggs, ageing process, 4 stages with varying ability to hatch and to infect and develop in rabbits, comparison of in vitro and in vivo estimates of viability, failure of 'senescent' eggs to produce immunity to challenge infection

Hatching

Croll, N. A., 1972, *Zool. J. Linn. Soc., London*, v. 51, Suppl. 1, 31-52
 larval nematodes, behavior, review (nematode senses, locomotion, movement patterns as tracked on agar, mechanisms of orientation)

Hatching

Dick, J. W.; Leland, S. E., jr.; and Hansen, M. F., 1973, *Tr. Am. Micr. Soc.*, v. 92 (2), 225-230
Ascaridia galli, 4 hatching techniques for embryonated eggs compared, subsequent cultivation in medium Ae and supplemented medium Ac

Hatching

Enigk, K.; and Dey-Hazra, A., 1976, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 89 (14), 276-281
Ascaris suum eggs, protein layer, surface structure and function

Hatching

Fujisaki, K.; Kitaoka, S.; and Morii, T., 1976, *National Inst. Animal Health Quart.*, v. 16 (3), 122-128
 comparative observations, feeding, molting, oviposition and hatching, ixodid ticks, laboratory cultural conditions

- Hatching**
Gemmell, M. A., 1977, *Exper. Parasitol.*, v. 41 (2), 314-328
Taenia spp., *Echinococcus granulosus*, eggs, hatching characteristics, survival, infectivity of embryos, influence of various factors (different worms, different segments of same worm, moisture, temperature, length of storage, washing), epidemiological implications in regulation of tapeworm populations
- Hatching**
van der Gulden, W. J. I.; and van Aspert-van Erp, A. J. M., 1976, *Exper. Parasitol.*, v. 39 (1), 40-44
Syphacia muris, egg hatching: effects of 22°C, 37°C, and cysteine on larval motility within closed egg and on subsequent hatching; effects of temperature, cysteine, and trypsin on permeability of water through eggshell; effect of water on opening of operculum
- Hatching**
van der Gulden, W. J. I.; and van Aspert-van Erp, A. J. M., 1976, *Exper. Parasitol.*, v. 39 (1), 45-50
Syphacia muris, effect of external stimuli on egg hatching (enzymes of intestinal tract, temperature, pH, pCO₂, redox potential), results indicate hatching mechanism of oxyurids identical to that of various nematodes which hatch in intestinal tract but dependent on environment to appreciably lesser extent
- Hatching**
Hanna, R. E. B.; Baalawy, S. S.; and Jura, W., 1975, *Research Vet. Sc.*, v. 19 (1), 96-97
Fasciola gigantica, development of in vitro techniques to study the invasive process, conditions necessary for excystment and penetration of mouse gut, maintenance of larvae on spleen cell monolayers
- Hatching**
Hinck, L. W.; and Ivey, M. H., 1976, *J. Parasitol.*, v. 62 (5), 771-774
Ascaris suum, proteinase activity in eggs, hatching fluid, and excretions-secretions of hatched larvae
- Hatching**
Impand, P., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (2), 288 [Demonstration] *E[chinostoma] malayanum* eggs, hatching ability decreased by lowered temperatures
- Hatching**
Kassim, O.; and Gilbertson, D. E., 1976, *J. Parasitol.*, v. 62 (5), 715-720
Schistosoma mansoni eggs, hatching, role of light, ionic concentrations of medium, and osmotic pressure; effect of ions on miracidial motility; histochemical nature of egg vacuoles and their possible role in hatching process
- Hatching**
Kearn, G. C.; and Macdonald, S., 1976, *Internat. J. Parasitol.*, v. 6 (6), 457-466
Entobdella soleae, *Acanthocotyle lobianchi*, chemical nature of hatching factors
- Hatching**
Klucas, C. A.; and Rhodes, M. B., 1976, *Proc. Nebraska Acad. Sc.*, 20
Ascaris suum, hatching fluid, immunization of pigs
- Hatching**
Kumar, P.; and Somadder, K., 1976, *Indian J. Entom.*, v. 36 (4), 1974, 355-358
Haematopinus suis, *Pediculus humanus*, and *Linognathus vituli*, hatching organ, description and mechanism
- Hatching**
Kumar, V.; and Mortelmans, J., 1974, *Riv. Parassitol.*, Roma, v. 35 (2), 149-151
Metastrongylus apri, occurrence of 2 distinct morphological forms of embryonated eggs, differential hatching behavior
- Hatching**
Laufer, W. E., 1970, *Med. Proc.*, Johannesburg, v. 16 (6), 103-107
decreased hatching of *Schistosoma haematobium* ova in chlorinated water, comparison trials with acriflavine and lucanthone solutions
- Hatching**
Le Jambre, L. F., 1976, *Vet. Parasitol.*, v. 2 (4), Dec., 385-391
Haemonchus contortus, *Ostertagia circumcincta*, technique for assay of thiabendazole resistance by hatching eggs in solutions of thiabendazole
- Hatching**
Le Jambre, L. F.; and Whitlock, J. H., 1976, *Parasitology*, v. 73 (2), 223-238
Haemonchus contortus cayugensis (New York State), *Haemonchus contortus contortus* (Ohio), vulvar phenotypes and hatch rate of eggs over a range of temperatures
- Hatching**
Long, R. A.; Ellis, W. L.; and Taylor, G. R., 1976, *Texas J. Sc.*, v. 27 (1), 163-172
Nematospiroides dubius, response to deep space environment of Apollo 16 manned spaceflight, reduced hatching rate of eggs, unchanged infectivity to mice
- Hatching**
Macdonald, S., 1977, *Internat. J. Parasitol.*, v. 7 (2), 113-118
Diclidophora merlangi, *D. luscae*, and *D. denticulata* compared, structure, hatching, and development
- Hatching**
Mitterer, K.-E., 1975, *Ztschr. Parasitenk.*, v. 47 (1), 35-43
Fasciola hepatica, egg hatching, CO₂ concentration, pH, light and darkness, temperature

Hatching

- Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 48 (1), 35-45
Dicrocoelium dendriticum miracidia, hatching with formic acid, caproic acid and intestinal juice of *Helix pomatia*, absence of O₂, presence of bacteria; indirect dependence on pH; permeabilities and osmotic pressure; hypothesis of hatching mechanism: granular gland activation releases enzyme, polysaccharide digested to oligosaccharide, rising osmotic pressure bursts operculum

Hatching

- Murua, R., 1975, J. Helminth., v. 49 (4), 293-296
Nematospiroides dubius larvae, hatching time, rate of development to third stage, optimum hatching and development temperature

Hatching

- Parkin, J. T., 1976, Parasitology, v. 73 (3), 343-354
Nematodirus battus, egg development and hatching, effect of variations in humidity and osmotic pressure

Hatching

- Paterson, H., 1977, Parasitology, v. 75 (2), xx [Abstract]
Moniezia expansa, *M. benedeni*, attempts to obtain hatched and sterile oncospheres for culture, hatching differences between species, large numbers of bacteria identified in eggs, elimination with chlorhexidine derivative for sterile oncospheres

Hatching

- Perry, R. N., 1977, Parasitology, v. 74 (2), 133-137
Nematodirus battus larvae, reassessment of variations in water content during hatching process

Hatching

- Rechav, Y.; and von Maltzahn, H. C., 1977, Ann. Entom. Soc. Am., v. 70 (5), 768-770
Boophilus decoloratus, *Rhipicephalus evertsi evertsi*, water loss from eggs at various temperatures and relative humidities and correlation between weight loss, hatching, and saturation deficits

Hatching

- Rhodes, M. B.; et al., 1977, Exper. Parasitol., v. 42 (2), 356-362
Ascaris suum embryonated eggs, hatching in orally inoculated pigs, in ligated intestinal segments, and in isolated intestinal loops of pigs, immune status of pig had no effect on hatching

Hatching

- Rietschel, G., 1975, Ztschr. Parasitenk., v. 47 (4), 283-297
Oestromyia leporina, hatching, mode of infection of *Microtus arvalis*, larval development, migration within host, duration of larval stages, perforation of skin; partial immunization against new infection

Hatching

- Rogers, W. P.; and Brooks, F., 1977, Internat. J. Parasitol., v. 7 (1), 61-65
Haemonchus contortus, egg hatching, presence of leucine aminopeptidase and lipase in hatching fluid, inhibition of hatching by 1,10-phenanthroline reversed by Zn²⁺

Hatching

- Smales, L. R., 1977, Internat. J. Parasitol., v. 7 (6), 449-456
Labiostrongylus eugenii, life history: embryogenesis, larval development within egg, hatching process, second and third stage larval morphology and development, optimal temperatures

Hatching

- Sukhapesna, V.; et al., 1975, J. Med. Entom., v. 12 (3), 391-392
Gasterophilus intestinalis, temperature, embryonic development and egg hatchability; longer viability of eggs at lower temperatures

Hatching

- Upatham, E. S., 1972, Southeast Asian J. Trop. Med. and Pub. Health, v. 3 (4), 600-604
Schistosoma mansoni, egg-infested human feces deposited in natural and standing and running water habitats containing *Biomphalaria glabrata* (exper.), tests of how soon and for how long eggs would hatch showed that hatchability of eggs was high but only a few miracidia successfully infected snails

Hatching

- Upatham, E. S.; Sturrock, R. F.; and Cook, J. A., 1976, Parasitology, v. 73 (3), 253-264
Schistosoma mansoni, human, simple standardized hatching test used to estimate egg hatching rate in relation to host age, sex, and intensity of infection, implications for epidemiology and for use in assessing drug efficacy: St. Lucia, West Indies

Hawaii. See United States, Hawaii.

Heart. [See also Cardiovascular system]

Heart

- Akou, G.; et al., 1972, Nouv. Presse Med., v. 1 (16), 1100 [Letter]
 human schistosomiasis resulting in chronic pulmonary-cardiovascular disease and arterial hypertension, clinical management: France

Heart

- Amuchastegui, L. M.; Alday, L. E.; and Moreyra, E., 1976, Medicina, Buenos Aires, v. 36 (2), 121-126
 cardiac sinus node disfunction and its clinical management in patients affected with chronic Chagasic cardiopathology

Heart

- Anderson, R. E.; and Varma, V. M., 1972, J. Nuclear Med., v. 13 (3), 217-218
 human amoebiasis complicated by amoebic pericarditis, diagnosis by radioisotopes, case report: Louisiana (Vietnam veteran)

- Heart
 Andy, J. J.; et al., 1977, *Am. J. Med.*, v. 63 (5), 824-829
 trichinosis, acute fatal infection in woman who at autopsy was found to have extensive ventricular endocardial damage with superimposed thrombosis, was known to have eaten raw meat frequently, clinical and morphologic report, review of other autopsies for other trichinosis-associated heart involvements
- Heart
 Anselmi, A.; and Moleiro, F., 1972, *Arch. Inst. Cardiol. Mexico*, v. 42 (4), 622-628
 Trypanosoma cruzi, humans, clinical cardiopathology
- Heart
 Arribada, A.; et al., 1970, *Bol. Chileno Parasitol.*, v. 25 (1-2), 22-32
 survey of patients with cardiomyopathies established Toxoplasma gondii as frequent etiologic agent with mixed infection of toxoplasmosis and Chagas disease discovered in one person
- Heart
 Badr, M. H.; and Abdel-Aziz, O., 1976, *Egypt. J. Bilharz.*, v. 3 (1), 79-88
 schistosomiasis, assessment of left ventricular cardiac function in infected humans, especially those persons with schistosomal cor pulmonale
- Heart
 Atias, A.; et al., 1966, *Bol. Chileno Parasitol.*, v. 21 (4), 124-127
 Echinococcus granulosus, intracardiac rupture of hydatid cyst in young child, associated lower arterial hydatid emboli resulting in arterial insufficiency and gangrene of leg, clinical case report: Santiago, Chile
- Heart
 Beer, N.; et al., 1977, *Postgrad. Med. J.*, London (623), v. 53, 537
 human Chagas disease, evaluation of effect of digoxin on ventricular automaticity in Chagas cardiomyopathy
- Heart
 Capris, T. A.; Barcat, J. A.; and Fernandez Moores, A. J., 1969, *Medicina*, Buenos Aires, v. 29 (2), 93-104
 necropsy findings of 16 cases of human Trypanosoma cruzi with special emphasis on cardiac lesions
- Heart
 Capris, T. A.; Fernandez Moores, A. J.; and Barcat, J. A., 1969, *Medicina*, Buenos Aires, v. 29 (5), 339-345
 Trypanosoma cruzi, cardiac insufficiency in human myocarditis, evaluation of accompanying arrhythmias and other resulting pathology
- Heart
 Castagnino, H. E.; et al., 1975, *Medicina*, Buenos Aires, v. 35 (2), 166-179
 case report of man with chronic myocardio-pathy of Chagas disease resulting in ventricular aneurysm with severe ventricular tachycardia, successful surgical repair
- Heart
 Chattopadhyay, S. K.; and Sharma, R. M., 1972, *Indian J. Animal Sc.*, v. 42 (9), 705-710
 sheep and goats from slaughterhouses, lesions in pericardium and heart, findings include Sarcosporidia, Multiceps, hydatid cyst, Cysticercus tenuicollis: India
- Heart
 Conte, G.; et al., 1971, *Minerva Med.*, v. 62 (68), 3227-3236
 human echinococcosis, cysts of heart and spleen secondary to primary cysts of liver, case reports, surgical management: Italy
- Heart
 Cossio, P. M.; et al., 1977, *Am. J. Path.* (418), v. 86 (3), 533-544
 Trypanosoma cruzi, immunopathologic and morphologic studies of chagasic cardiopathy, deposits of immunoglobulins found at plasma membrane of working myocardial and endothelial cells, cytologic location of bound gammaglobulin coincident with specificity of circulating antibodies; findings suggest the possibility that lymphocyte-mediated immune response against heart tissue may participate in some of pathogenetic mechanisms of chronic cardiopathy
- Heart
 Dallochio, M.; et al., 1974, *Nouv. Presse Med.*, v. 3 (16), 1034 [Letter]
 distomiasis in man with resulting endomyocardial fibrosis, history of eating water cress, clinical case report: France
- Heart
 Desowitz, R. S.; Barnwell, J. W., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (4), 475-476
 Plasmodium berghei very young forms, deep vascular sequestration in heart and kidney of white rat equal to or greater than that in bone marrow, lung, liver, and spleen; hitherto unrecorded site of schizont concentration in lung
- Heart
 Diaz M., G. S.; et al., 1971, *Neumol. y Cirug. Torax*, v. 32 (6), 393-403
 human hepatic amoebic abscess with resulting amoebic pericarditis, need for early diagnosis stressed: Mexico
- Heart
 Duflo, B., 1975, *Medecine Interne*, v. 10 (10), 447-453
 human cardiac complications of tropical parasitoses, pathologic findings
- Heart
 Duncanson, F. P.; et al., 1977, *J. Trop. Med. and Hyg.*, v. 80 (3), 52-58
 mice (exper.) with acute Chagasic myocarditis showed decreased blood trypanosome counts and decreased cardiac inflammation and necrosis when administered sodium salicylate at onset of parasitemia

Heart

Feichter, G. E.; Buecking, H.; and Moll, A., 1974, *Munchen. Med. Wchnschr.*, v. 116 (47), 2073-2076

Echinococcus cysticus in man, case report of infection affecting brain and heart, need for diagnostic awareness as a result of international migration movements: Italian native living in Germany

Heart

Ferencz, A.; et al., 1972, *Orvosi Hetilap*, v. 113 (52), 3194-3196, 3199
human trichinosis, electrocardiographic changes during infection

Heart

Fosella, P. V.; et al., 1974, *Atti Soc. Ital. Sc. Vet.*, v. 28, 858-862

Toxocara canis, infected white mice, electrocardiographic changes related to micro-ascariid pneumonia and localization of larva in myocardium, verified histologically

Heart

Fossati, C., 1974, *Rev. Iber. Parasitol.*, v. 34 (1-2), 103-128
human cardiopathies caused by protozoan or helminth parasites, clinical aspects, review

Heart

Guitti, J. C. D. S.; et al., 1971, *Pediat. Prat.*, S. Paulo, v. 42 (7-8), 111-120

Toxoplasma gondii, myocarditis in 6-year-old child of probable toxoplasmic origin, clinical case report: Sao Paulo, Brazil

Heart

Hernandez-Pieretti, O., 1977, *Postgrad. Med. J.*, London (623), v. 53, 533-536

human Chagas disease, echocardiographic findings in persons with chronic Chagas cardiomyopathy compared with other types of cardiomyopathy, use in diagnosis and evaluation of pathology

Heart

Huebsch, R. M.; Sulzer, A. J.; and Kagan, I. G., 1976, *J. Parasitol.*, v. 62 (4), 523-527
evaluation of sensitivity and specificity of indirect immunofluorescence test for auto-immune-type EVI antibodies in sera of patients with Chagas disease (*Trypanosoma cruzi*), leishmaniasis (*Leishmania brasiliensis*, *L. donovani*), malaria, and several other non-parasitic diseases; second type of staining of heart tissue also reported for patients with leishmaniasis and malaria but not Chagas' disease

Heart

Inglessis, G., 1973, *Arch. Inst. Cardiol. Mexico*, v. 43 (1), 87-101

Necator [americanus] in children, evidence of cardiac pathology associated with parasitic anemia, reversal of symptoms when anemia treated: Venezuela

Heart

Ivoghli, B., 1977, *J. Am. Vet. Med. Ass.*, v. 170 (8), 834

Spirocerca lupi, dog, fatal aortic aneurysm and rupture: Iran

Heart

Jackson, R. F.; et al., 1977, *J. Am. Vet. Med. Ass.*, v. 171 (10), 1065-1069

Dirofilaria immitis, dogs (heart), caval syndrome, surgical treatment

Heart

Jones, I. G.; Lowenthal, M. N.; and Buyst, H., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 388-395

Trypanosoma brucei rhodesiense, electrocardiographic abnormalities in infected humans

Heart

Machado, A.B.M.; Machado, C.R.S.; and Gomes, C. B., 1975, *Experientia*, v. 31 (10), 1202-1203

Trypanosoma cruzi, rats, experimental acute myocarditis, depletion of heart norepinephrine indicates massive involvement of cardiac postganglionic sympathetic fibres in acute Chagas disease

Heart

Maldonado Ramirez, H.; et al., 1972, *Neumol. y Cirug. Torax*, v. 33 (1), 19-24

human amoebic hepatic abscess with associated amoebic pericarditis and tamponage, surgical management of 3 cases: Mexico

Heart

Martin Trenor, A.; et al., 1974, *Arch. Inst. Cardiol. Mexico*, v. 44 (6), 902-911

Entamoeba histolytica pericarditis in 4-year-old child with resulting diaphragmatic hernia, case report: Mexico

Heart

Mazonaud, R.; and Ferrus, R., 1973, *Medecine Trop.*, v. 33 (2), 177-185

human malaria and filariasis as possible causes of idiopathic endomyocardial fibrosis in tropical areas

Heart

Mikhail, E. G.; and Milad, M., 1975, *Med. J. Cairo Univ.*, v. 43 (1), 65-71

exper. *Trichinella spiralis* myocarditis, rats, pathologic findings, occurs during migration phase of infection during first two weeks of disease, generally no permanent damage

Heart

Murray, M.; et al., 1974, *Research Vet. Sc.*, v. 16 (1), 77-84

Trypanosoma brucei, 3 aspects of pathology in rats: progressive alteration in immunological apparatus of lymph nodes, spleen, and thymus, increase in activity of mononuclear phagocytic system; haemopoietic system changes, haemolytic anemia; specific organ damage (heart most markedly affected)

Heart

Nhonoli, A. M.; and Chukwumeka, A. C., 1971, *Med. J. Zambia*, v. 5 (3), 95-101

analysis of electrocardiographic changes in patients with severe hookworm anemia before and after treatment with alcopar and tetrachlorethylene: Zambia

Heart

- Oropeza Martinez, G.; and Maldonado Campos, F., 1976, *Neumol. y Cirug. Torax*, v. 37 (2), 103-109
human amoebic pericarditis with resulting cardiac tamponage, clinical case successfully treated surgically: Mexico

Heart

- Payet, M.; and Coulaud, J. P., 1971, *Medecine Afrique Noire*, v. 18 (spec. no.), 135-137
human malaria, cardiac complications, clinical review

Heart

- Poltera, A. A.; Cox, J. N.; and Owor, R., 1975, *Pathol. et Microbiol.*, v. 43 (2-3), 117-119
pancarditis resulting from human African trypanosomiasis, review of pathologic findings, importance as cause of congestive cardiomyopathies, association with chronic meningoencephalitis

Heart

- Poltera, A. A.; Cox, J. N.; and Owor, R., 1977, *East African Med. J.*, v. 54 (9), 497-499
human African trypanosomiasis, cardiac valvulitis observed in man with proven infection, possible relationship of trypanosomiasis with cardiomyopathies of unknown origins; Trypanosoma brucei-infected mice (exper.) also had valvulitis with parasites present in the lesions

Heart

- Puigbo, J. J.; et al., 1977, *Postgrad. Med. J.*, London (623), v. 53, 527-532
Trypanosoma cruzi, human, cardiac involvement, review of acute latent and chronic phases, diagnosis, pathology

Heart

- Rawlings, C. A.; and Lewis, R. E., 1977, *Am. J. Vet. Research*, v. 38 (11), 1801-1805
Dirofilaria immitis, dogs with spontaneous infection, evaluation of size of right ventricle by thoracic radiography, electrocardiography, and right ventricular free wall weights; based on radiography, only 2 of 15 dogs had right ventricles of normal size

Heart

- Rivera Reyes, H. H.; Rodriguez Trapala, A.; and Nieto de Pascual, R. H., 1975, *Neumol. y Cirug. Torax*, v. 36 (2), 91-98
human amoebic pericarditis, case report, clinical aspects followed by electrocardiograph: Mexico

Heart

- Sadeler, B. C., 1973, *Medecine Trop.*, v. 33 (6), 579-594
electrocardiographic changes and heart rate, different stages of experimental Schistosoma mansoni infections in Mesocricetus auratus

Heart

- Salazar, E.; et al., 1972, *Arch. Inst. Cardiol. Mexico*, v. 42 (6), 840-849
human Toxoplasma gondii resulting in clinical and electrocardiographic evidence of cardiomyopathy, case reports

Heart

- Sanabria, A.; Croquer, F. J.; and Monsalve, P., 1976, *Nouv. Presse. Med.*, v. 5 (7), 431-432
cardiac arrhythmias resulting from human Chagas disease, clinical trials with carbamazepine to study its anti-arrhythmic action

Heart

- Scorza, C.; and Scorza, J. V., 1972, *J. Reticuloendothel. Soc.*, v. 11 (6), 604-616
Trypanosoma cruzi, rats, active phagocytosis of parasites by inflammatory macrophages in auricles of heart 11 days after infection, formation of phagosomes and of phagolysosomes and alterations in ingested parasites, role of acid phosphatase in alterations of phagocytized parasites

Heart

- Shafii, A., 1977, *N. York State J. Med.*, v. 77 (3), 418-419
Trypanosoma cruzi cardiomyopathy and resulting hemiplegia in immigrant woman from Ecuador, diagnostic confusion with myocardial infarction, clinical case report: New York

Heart

- de la Vega, M. T.; Damilano, G.; and Diez, C., 1976, *J. Parasitol.*, v. 62 (1), 129-130
chronic Trypanosoma cruzi-infected humans, positive leukocyte migration inhibition test with heart antigens, results suggest cell-mediated immune response against heart tissue could participate in mechanism of myocardial damage in Chagas' disease

Heart

- Yamashita, H.; et al., 1975, *Bull. Nippon Vet. and Zotech. Coll.* (24), 94-101
surgical removal of heartworms by right auriculotomy and puncture of pulmonary artery, dogs

Heat. See Temperature.

Helminthiasis, Human

- Dunstone, M., 1976, *Med. J. Australia*, v. 1 (3), 57-60
statistical review of common infectious diseases in Australia including human helminthiasis and Trichomonas

Helminthiasis, Human

- Kelly, J. D., 1974, *Internat. J. Zoonoses*, v. 1 (1), 1-12
phylogeny and ontogeny of man-helminth-animal relationships

Helminthiasis, Treatment and control

- Niec, R.; Lukovich, R.; and Rosa, W. A. J., 1976, *Gac. Vet.*, Buenos Aires (307), v. 38, 29
gastrointestinal helminthiasis, ovine, cutaneous application of levamisole, brief preliminary report

Helminthology, Manuals and textbooks

- Muller, R., 1975, *Worms and disease. A manual of medical helminthology*, 161 pp., illus., maps.
manual of medical helminthology

Helminths, Parasites of. See Hyperparasitism.

Hemagglutination. See Immunity, Agglutination.

Hematocrit. See Anemia; Blood.

Hematuria. See Urine and urinary tract.

Hemocytes. See Blood; Hemolymph.

Hemoglobin. [See also Anemia; Blood; Pigments]

Hemoglobin

Allonby, E. W.; and Urquhart, G. M., 1976, Research Vet. Sc., v. 20 (2), 212-214
Haemonchus contortus, Merino sheep, possible relationship between haemoglobin type and resistance to haemonchosis: Kenya

Hemoglobin

Areekul, S.; et al., 1972, Southeast Asian J. Trop. Med. and Pub. Health, v. 3 (4), 505-510
P[lasmodium] falciparum in humans, P. knowlesi in Macaca mulatta, serum haptoglobin levels during course of infection and after treatment, fall and rise of haptoglobin levels were in parallel with changes of hemoglobin concentrations, alterations probably due to hemolysis and increased phagocytic activity

Hemoglobin

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Schistosoma mansoni-infected Biomphalaria glabrata vector snails (exper.), lower hemoglobin values during infection

Hemoglobin

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Hemoglobin

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human hookworm anemia, positive correlation between degree of hookworm infection and degree of anemia: Sogeri rubber tappers, Papua New Guinea

Hemoglobin

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Hemoglobin

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Babesia herpailuri from cats before and after treatment with Imidocarb, ultrastructure of intraerythrocytic trophozoites and merozoites; prophylactic effect of drug may be due to low feeding on hemoglobin

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Hemoglobin

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Hemoglobin

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Hemoglobin

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Necator infestation in rural dwelling Fijians and Indians, relationship to mean hemoglobin levels

Hemoglobin

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Hemoglobin

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Ascaris lumbricoides, culture in media with added glucose or hemoglobin, soluble protein and hemoglobin content of certain tissues, values for body wall most accurately reflect physiological state of parasite; Tyrode solution with 1.0 g glucose and 0.3 g pig hemoglobin per liter best medium for culture

Hemoglobin

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Hemoglobin

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Hemoglobin

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Hemoglobin

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Plasmodium gallinaceum in chicken embryos of different ages, differences in development and reproduction may be due to different hemoglobin composition

Hemoglobin

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Ascaris lumbricoides, perivisceral fluid, separation and analysis of proteins and hemoglobin

Hemoglobin

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Hemoglobin

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Ascaris lumbricoides, cultured in starvation conditions, soluble protein content decreased significantly in sexual organs and body wall, slightly in perivisceral fluid; hemoglobin decreased significantly in sexual organs and body wall, increased slightly in perivisceral fluid; estimates of endogenous utilization and elimination

Hemoglobin

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Plasmodium falciparum in vitro, preferential invasion of young red cells but no difference in rate of development in red cells of differing ages, foetal haemoglobin (Hb F) has no direct effect on rate of invasion of red cells but does cause retardation of parasite growth and development and may therefore offer some degree of protection, this may be possible mechanism for maintenance of β thalassaemia polymorphism since there is a retardation of rate of decline of Hb F production in infants heterozygous for β thalassaemia

Hemoglobin

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Plasmodium falciparum, human, possible relationships between complement and decreased hemoglobin in parasitemia

Hemoglobin

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 possible relationships between hemoglobin types and human malarial infection rate, parasite species, parasite density, host age and sex; correlations with transplacental and passive immunity

Hemoglobin

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Leishmania tropica promastigotes in vitro, sensitivity to toxic effects of bilirubin (loss of viability, decreased sugar and amino acid uptake, increased efflux of intracellular sugars, hexokinase activity, lowered respiration), results suggest irreversible damage to cell membrane, possible culture loss if bilirubin concentration of hemoglobin solution used is too high

Hemoglobin

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Hemoglobin

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Hemoglobin

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Hemoglobin

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Toxoplasma gondii, sheep muscular tissue, incidence correlated with dye test titres and haemoglobin type (higher in type B than A or AB), possible genetic influence on infection, epidemiology, meat inspection: southern Norway

Hemoglobin

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Toxoplasma gondii, sheep, antibody formation, dye test titres higher in ewes that had aborted; course of titre levels in young lambs; titre not influenced by listeric encephalitis; higher titres in sheep with hemoglobin type B

Hemoglobin

- Washburn, K. W., 1975, Avian Dis., v. 19 (4), 791-801
Eimeria tenella, chickens with mutant and normal hemoglobin types compared under conditions of hematopoietic stress from coccidiosis infection and blood loss from mechanical bleeding

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 chicks, interaction of aflatoxin with *Eimeria tenella* infection and monensin: *E. tenella* and aflatoxin in combination significantly increased mortality and weight depression, and caused more severely reduced hemoglobin, packed cell volume, and plasma pigmentation; monensin sodium did not completely prevent mortality and weight depression in a mixed infection; coccidial lesion scores were less for combination of *E. tenella* and aflatoxicosis than for coccidiosis alone

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Hemoglobinemia. See Blood.

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Hemolymph

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Hemolymph

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Biomphalaria glabrata (principal intermediate host of *Schistosoma mansoni*), characterization of hemocytes preparatory to defining possible roles in immune response

Hemolymph

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Biomphalaria glabrata totally or partially resistant to *Schistosoma mansoni*, acid phosphatase demonstrated in isolated granulocytes and used as marker to determine that cells comprising capsule surrounding mother sporocysts are granulocytes, process of encapsulation involves two stages, host cellular responses do not occur in susceptible snails

Hemolymph

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Mermis nigrescens in *Locusta migratoria*, hemolymph uric acid increased, fecal uric acid decreased, host protein turnover

Hemolymph

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Minchinia nelsoni disease development in susceptible oysters, *Crassostrea virginica*, alterations in hemolymph protein, aspartate and alanine aminotransferases, and phosphohexose isomerase, host metabolic changes; possible humoral defense mechanisms

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Amblyomma americanum, *A. maculatum*, *Dermacentor variabilis*, critical equilibrium humidity, effects of low and high humidities on rates of weight change, total water content, hemolymph volume, and humidity preference, correlation with geographical distribution and resistance to dehydration

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parasite encapsulation in insects, review
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gastrointestinal hemorrhage as presenting symptom of human hookworm disease, clinical management, need for diagnostic awareness in non-endemic areas
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Hemotoxins. See Toxins.

Hepatitis. See Liver.

Heredity. See Genetics.

Hibernation. [See also Overwintering]

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Histochemistry. [See also Biochemistry; Metabolism]

Histochemistry

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Acanthosentis sp. (identified in footnote as *A. oligospinus*), egg envelopes of acanthor, layers, histochemistry, permeability, phase-contrast microscopy

Histochemistry

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Histochemistry

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Histochemistry

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Histochemistry

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Histochemistry

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Histochemistry

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Histochemistry

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Histochemistry

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- Histochemistry
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Histochemistry

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digenetic trematodes, distribution of alkaline phosphatase, acid phosphatase, 5-nucleotidase and ATPase in various reproductive tissues

Histochemistry

Sharma, R. K.; Singh, K.; and Sharma, P. K., 1976, Ztschr. Parasitenk., v. 49 (2), 187-192

Stephanurus dentatus, non-specific phosphomonoesterases, activity, distribution in various tissues

Histochemistry

Sheahan, B. J., 1975, J. Comp. Path., v. 85 (1), 87-95

Sarcoptes scabiei, pigs, natural vs. experimental infections, histological and histochemical alterations in ear lesions, raised serum protein levels not accompanied by increases in passive haemagglutination titres

Histochemistry

Sheahan, B. J., 1975, J. Comp. Path., v. 85 (1), 97-110

Sarcoptes scabiei, iron-treated vs. iron-deprived pigs (exper.), histological, histochemical, and ultrastructural changes at skin sites, immediate and delayed hypersensitivity reactions

Histochemistry

Sood, M. L.; and Kalra, S., 1977, Ztschr.

Parasitenk., v. 51 (3), 265-273

Haemonchus contortus, histochemistry of body wall, comparison with plant parasitic nematode

Histochemistry

Stringfellow, F., 1977, Proc. Helminth. Soc. Washington, v. 44 (1), 76-81

monospecific and dual species infections of *Ostertagia ostertagi* and *Trichostrongylus axei*, calves, histochemical studies of abomasal tissue

Histochemistry

Threadgold, L. T., 1976, Exper. Parasitol., v. 39 (1), 119-134

Fasciola hepatica, glycocalyx of tegument, more precise definition of morphology and chemistry using histochemical tests and controls combined with specific enzyme digestions and fine structural studies, variations depending on environment immediately prior to fixation and also on fixation and postfixation treatment

Histochemistry

Tomosky-Sykes, T. K.; and Bueding, E., 1977, J. Parasitol., v. 63 (2), 259-266

Schistosoma mansoni, hycanthone effects on muscular activity and neurotransmitter systems cannot be related to mode of antischistosomal action of this drug, effects occur after hepatic shift, are not demonstrable with antischistosomal analogs of hycanthone, and are also elicited in hycanthone-resistant worms; histochemical observations with dansylated compounds

Histochemistry

Watertor, J. L.; and Van Landingham, S. B., 1976, J. Parasitol., v. 62 (1), 152-153

host-induced histochemical variations in *Telorchis bonnerensis* reared in *Ambystoma tigrinum* vs. *Chelydra serpentina*, histochemical resemblance to *T. corti* when both reared in *C. serpentina*

Histochemistry

Wheater, P. R.; and Wilson, R. A., 1976, Parasitology, v. 72 (1), 99-109

Schistosoma mansoni, tegument, histochemistry, main components are neutral glycoprotein and phospholipid, differentiation from other schistosome tissues on the basis of marker enzymes

Histochemistry

Wilkins, D.; and Lee, D. L., 1976, Parasitology, v. 72 (1), 51-63

Histomonas meleagridis, caecal wall and liver of infected turkey poults, changes in amount and distribution of acid and alkaline phosphatase, non-specific esterase, glycogen, lipid, and acid mucopolysaccharide

Histochemistry

Wittrock, D. D., 1976, J. Parasitol., v. 62 (5), 834-836

Quinqueserialis quinqueserialis, cirrus tegument, ultrastructure, histochemical tests suggest major component is glycoprotein

Histology. [See also Morphology]

Histology

Ali-Khan, Z., 1977, Ann. Trop. Med. and Parasitol., v. 71 (4), 469-482

Onchocerca, comparative morphology, histology and measurements of one male and one female specimen of *Onchocerca* sp. excised from the wrist of an Ontario, Canada resident, 2 bovine spp. from Canada and *O. cervicalis* from the ligamentum nuchae of a horse from Georgia, U.S.A.

Histology

Hulinska, D., 1975, Zool. Anz., Jena, v. 195 (3-4), 201-219

morphological and histological development of larval *Multiceps endothoracicus*

Histology

Leake, L. D., 1975, Comparative histology. An introduction to the microscopic structure of animals., 738 pp.
parasites, comparative histology, textbook

Histopathology. See Pathology.

History of parasitology. See Parasitology, History.

Holland. See Netherlands.

Hong Kong

Huang, C. T.; et al., 1969, Nettai Igaku (Trop. Med.), v. 11 (3), 136-144

survey of post-mortem examinations and fecal samples of hospital patients for intestinal helminths: Hong Kong
(*Trichuris trichiura*; *Clonorchis sinensis*; *Ascaris lumbricoides*; *Ancylostoma caninum*; *Fasciolopsis buski*; *Schistosoma japonicum*; *Diphyllobothrium latum*; *Enterobius vermicularis*; *Ancylostoma duodenale*; *Necator americanus*; *Strongyloides stercoralis*)

Hormones. [See also Biochemistry; Glands, Host; Metabolism; Pheromones]

Hormones

Abrahams, S. L.; Northup, J. K.; and Mansour, T. E., 1976, Molec. Pharm., v. 12 (1), 49-58
Fasciola hepatica, 5-hydroxytryptamine and other effectors, effects on adenylate cyclase activity, fluke motility, and endogenous adenosine cyclic 3',5'-monophosphate level; antagonism by LSD of 5-HT effect on adenylate cyclase; possible hormonal role of 5-HT in regulation of neuromuscular activity

Hormones

Anderson, J.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 209-222

Onchocerca volvulus, survey of total populations aged 5 years and older in 16 villages of rain-forest and savanna zones, standard techniques used to assess intensity of infection, clinical manifestations; differences thought to be influenced by hormonal factors, strain pathogenicity, transmission patterns: United Cameroon Republic

Hormones

Bailenger, J.; et al., [1977], Ann. Parasitol., v. 51 (6), 1976, 653-665

Strongyloides ratti, rats, inhibition of self cure by treatment with glucocorticosteroids or ACTH

Hormones

Bailenger, J.; and Cabannes, A., 1976, Ann. Parasitol., v. 51 (5), 563-576

Strongyloides ratti, lactating rats, inhibition of self-cure, decrease in intensity of parasitemia, plasma corticosteroid levels

Hormones

Bailenger, J.; and Faraggi, G., 1975, Ann. Parasitol., v. 50 (2), 187-197

Strongyloides ratti, rats (exper.), mechanism of hypocorticosteronemia

Hormones

Bailenger, J.; and Faraggi, G., 1975, Ann. Parasitol., v. 50 (2), 199-208

Strongyloides ratti, rats (exper.), reserpine treatment inhibits self-cure reaction and causes hypercorticosteronemia, implications for role of hypocorticosteronemia normally associated with this parasite

Hormones

Baker, K. P., 1975, Vet. Parasitol., v. 1 (2), 193-197

Demodex folliculorum, dogs, occasional development of hyperpigmentation of the skin, increased melanocyte activity in epidermis, adrenal cortical malfunction as possible cause

Hormones

Bezubik, B.; and Borowik, M. M., 1969, Acta Parasitol. Polon., v. 17 (1-19), 17-24

Strongyloides papillosus, rats, natural resistance not broken down by cortisone

Hormones

Birova-Volosinovicova, V., 1974, Biologia, Bratislava, s. B, Zool. (1), v. 29 (2), 139-149

Ascaridia galli in chicks treated with hormones (ACTH and cortisone), low doses produced higher levels of parasitism, increased larval burden in first 5 days after infection and eliminated usual sudden decrease of larval count in chick intestine; high dose of cortisone produced low level of parasitism

Hormones

Birova-Volosinovicova, V., 1974, Biologia, Bratislava, s. B, Zool. (1), v. 29 (2), pp. 151-157

A[scaridia] galli in chicks treated with hormones (ACTH and cortisone), blood values (erythrocytes, leucocytes, haemoglobin, leucogram) same as normal chicks or infected, untreated chicks

Hormones

Bitoun, A.; et al., 1972, Nouv. Presse Med., v. 1 (29), 1935-1937

massive severe strongyloidiasis in young woman being treated with cortico-steroids, thiabendazole therapy, clinical case report: Paris, France (native of Gabon)

Hormones

Boisvenue, R. J.; Emmick, T. L.; and Galloway, R. B., 1977, *Exper. Parasitol.*, v. 42 (1), 67-72

Haemonchus contortus, some compounds with juvenile hormone activity inhibited in vitro development of infective larvae, none of these compounds had anthelmintic properties against *Ascaris suum* or *Nematospiroides dubius* in mice

Hormones

Brown, D. J.; Sauer, J. R.; and Needham, G. R., 1975, *Ann. Entom. Soc. Am.*, v. 68 (4), 768-770

Amblyomma americanum, comparison of extracellular fluid volume (inulin space) of salivary glands incubated with and without adrenaline, total tissue water content increased in adrenaline-incubated glands, significance to mechanisms of fluid transport across tick salivary glands discussed

Hormones

Bulnheim, H. P., 1977, *Biol. Zentralbl.*, v. 96 (1), 61-78

Thelohania hereditaria and *Octosporaea effemians* in *Gammarus d. duebeni* (ovary) (nat. and exper.), feminized hosts, androgenic gland development inhibited, partially suppressed endocrine function: Gebiet der Elbmündung (Graben des Deichvorlandes bei Muggendorf)

Hormones

Burke, G. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 402-405

10 patients with presumed parasitological disease, circulating absolute eosinophil levels over a 24 hour period, periodicity, steroid administration will not separate parasitic from other causes of eosinophilia

Hormones

Bwathondi, P. O. J., 1976, *Parasitology*, v. 73 (2), x-xi [Abstract]

Crepidostomum metoecus in *Salmo trutta*, incidence, annual seasonality, increase in infection in younger fish, spawning fish showed higher infection in females than males suggesting role of reproductive hormones in host resistance

Salmo trutta (pyloric caeca, intestine)
Cloeon simile
Siphonurus lacustris
all from Loch of Strathbeg, N.E. Scotland

Hormones

Castro, G. A.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 848-853

intestinal parasites, rats, serum and antral gastrin levels, *Trichinella spiralis* associated with inflammatory changes in small bowel mucosa and with significant increase in serum gastrin, neither changes in hormone level nor inflammation induced by *Hymenolepis diminuta*, findings suggest that pathologic changes caused by enteric parasites may be due to changes in functions that are regulated by gastrointestinal hormones

Hormones

Chamberlain, W. F., 1975, *J. Med. Entom.*, v. 12 (4), 395-400

insect growth regulators for control of insects of medical and veterinary importance, review

Hormones

Chamberlain, W. F.; and Becker, J. D., 1977, *Southwest. Entom.*, v. 2 (4), 179-182

Xenopsylla cheopis, inhibition of cocoon formation and adult emergence by insect growth regulators, possible means of control

Hormones

Chamberlain, W. F.; Hopkins, D. E.; and Gingrich, A. R., 1976, *Southwest. Entom.*, v. 1 (1), 1-8

Bovicola limbatus, Angora goats, growth regulators, spray vs. pour on

Hormones

Chen, P.; and Soulsby, E. J. L., 1976, *Internat. J. Parasitol.*, v. 6 (2), 135-141

Haemonchus contortus infections in ewes during pregnancy, parturition, and lactation, blastogenic responses of peripheral blood leukocytes to non-specific mitogen, non-helminth antigens, and specific 3rd stage larval antigen, relationship to 'spring-rise' and 'self-cure' phenomena, possible hormonal factors

Hormones

Combescot, C.; Barrabes, A.; and Gerhardt, R., [1976], *Ann. Parasitol.*, v. 50 (5), 1975, 629-633

Schistosoma mansoni, female golden hamsters, oestrogen reduces intensity of infection but does not change sex ratio of worms

Hormones

Condon, W. J.; and Gordon, R., 1977, *J. Invert. Path.*, v. 29 (1), 56-62

Neomesomeris flumenalis, effects on neuroendocrine systems and storage of fat body glycogen in larval *Prosimulium mixtum fuscum* and *Simulium venustum*

Hormones

Connan, R. M., 1976, *Vet. Rec.*, v. 99 (24), 476-477

gastrointestinal nematodes, suppressed immune response of host during lactation primarily of endocrinal origin, review

Hormones

Cornford, E. M.; et al., 1975, *Gen. Pharmacol.*, v. 6 (4), 315-323

Trypanosoma lewisi, effects of altered blood glucose levels in vivo (rats), effects of hypoglycemic and hyperglycemic agents on glucose metabolism in vitro

Hormones

Counio, 1975, *Marseille Med.*, v. 112 (4), 233-237

human vaginitis, good treatment results in combined use of hormones and trichomonocides: France

Hormones

- Davey, K. G., 1976, *Organ. Nematodes (Croll)*, 273-291
hormones in nematodes, review: neurosecretion; hormonal control of development; effect of exogenous hormones

Hormones

- Davtian, E. A.; Boiakhchian, G. A.; and Balaian, D. E., 1976, *Biol. Zhurnal Armenii*, v. 29 (7), 3-13
fascioliasis and cysticercosis, sheep, various aspects of pathogenesis (role of hypovitaminosis-A and mechanisms and dynamics of its origin, origin of vitamin E insufficiency, thyroid insufficiency, role of endogenous copper insufficiency, interaction of copper sulfate with vitamins A and E); possible use of copper sulfate as treatment

Hormones

- Dennis, R. D. W., 1977, *Internat. J. Parasitol.*, v. 7 (3), 181-188
Haemonchus contortus, extracts, amount of ecdysone-like material

Hormones

- De Rosa, F.; et al., 1972, *Parassitologia*, v. 14 (2-3), 275-286
echinococcosis, secondary peritoneal hydatidosis in experimental mice, antigen vaccination; inoculation with scolices, quantitative studies, various factors in receptivity

Hormones

- Dominguez O., J.; et al., 1977, *Veterinaria, Mexico*, v. 8 (2), 37-41
Sarcoptes scabiei canis, experimental transmission to dog from human having Turner's syndrome and scabies, possibility of human cases of canine scabies under conditions of hormone imbalance or immunological unresponsiveness

Hormones

- Duong, T. H.; and Barrabes, A., 1976, *Compt. Rend. Soc. Biol., Paris*, v. 170 (4), 908-915
Entamoeba h. histolytica (exper.), level of circulating antibodies (indirect immunofluorescence) is lower in female castrated golden hamsters implanted with pellet of oestradiol than in castrated control animals

Hormones

- Erp, E. E.; and Fahrney, D., 1976, *Am. J. Vet. Research*, v. 37 (5), 607-609
Anaplasma marginale, splenectomized cattle, increases in serum concentration of phagocytosis-stimulating factor and acceleration of erythrophagocytosis; factor may be new hormone

Hormones

- Esch, G. W.; Johnson, W. C.; and Coggins, J. R., 1975, *Proc. Oklahoma Acad. Sc.*, v. 55, 122-127
Proteocephalus ambloplitis population dynamics, smallmouth bass (*Micropterus dolomieu*), lake temperature profile and infection rates, host hormones as possible stimulus for parenter plerocercoid migration; suggested absence of competitive interaction between *P. ambloplitis* and *Leptorhynchoides thecatus*, densities of acanthocephalans and tapeworms and number of pyloric ceca present suggested potential space available for attachment not fully exploited: Gull Lake, Kalamazoo County, Michigan

Hormones

- Fioravanti, C. F.; and MacInnis, A. J., 1976, *J. Parasitol.*, v. 62 (5), 749-755
Hymenolepis diminuta in vitro, farnesol and other prenois substances had no growth-promoting effect and were toxic at higher concentrations

Hormones

- Freze, V. I.; and Zenevich, I. V., 1977, *Dokl. Akad. Nauk SSSR*, v. 235 (4), 976-979
Diphyllobothrium ditremum, *D. vogeli*, exper. final hosts, effect of thyroxine on growth and sexual maturity; concluded that cestodes in hyperthyroid hosts have increased reproductive potential

Hormones

- Gad-El-Mawla, N.; et al., 1973, *Med. J. Cairo Univ.*, v. 41 (4), 309-314
possible correlations of estrogen-containing contraceptive pills in the presence of schistosomal hepatic fibrosis with intramammary duct hyperplasia and cancer, exper. mice

Hormones

- Gentleman, S.; Abrahams, S. L.; and Mansour, T. E., 1976, *Molec. Pharm.*, v. 12 (1), 59-68
Fasciola hepatica, effect of substrates and adenosine cyclic 3',5'-monophosphate concentrations on protein kinase activity; 5-hydroxytryptamine activation of protein kinase, relationship between protein kinase activity and time of incubation with 5-HT; LSD antagonism of 5-HT activation of protein kinase; phosphorylation in fractions of fluke homogenate

Hormones

- Gingrich, A. R.; and Hopkins, D. E., 1977, *J. Econom. Entom.*, v. 70 (1), 107-108
Haematobia irritans, 3rd-instars exposed to insect growth regulator, methoprene, adult emergence inhibited, no effect on 1st-, 2nd-instars or pupae

Hormones

- Gross, W. B., 1976, *Poultry Science*, v. 55 (4), 1508-1512
Eimeria necatrix, chickens with high levels of plasma corticosterone housed in environment of considerable social interaction had more active phagocytic defense and fewer schizonts than chickens with low levels of plasma corticosterone housed in environment with minimized social interaction

Hormones

- Hall, R. D.; and Gross, W. B., 1975, *J. Parasitol.*, v. 61 (6), 1096-1100
Ornithonyssus sylviarum, chickens artificially selected for high or low levels of plasma corticosterone response to stress and housed to promote high or low levels of social interaction, effect on development of mite populations, host sex differences

Hormones

- Hennessy, D. R.; Prichard, R. K.; and Griffiths, D. A., 1977, *Exper. and Molecular Path.*, v. 27 (2), 143-151
Trichostrongylus colubriformis-infected sheep, thyroxine and thyroxine-binding proteins

Hormones

- Henry, L.; and Beverley, J. K. A., 1976, Brit. J. Exper. Path., v. 57 (3), 274-280
Toxoplasma gondii, mice, age and sex differences in response of lymph node post-capillary venules, possible role of female sex hormones on vascular endothelium in modifying development of immune response

Hormones

- Hepler, D. I.; Lueker, D. C.; and Rubin, R., 1976, J. Parasitol., v. 62 (3), 491-492
Nematospiroides dubius, vaccination, immune response of outbred mouse strains stronger than inbred ones, oral route of administering larvae superior to subcutaneous route, steroid hormones blocked expression of immunity in subcutaneously vaccinated mice but not in orally vaccinated ones

Hormones

- Hindsbo, O., 1973, Norwegian J. Zool., v. 21 (4), 328 [Abstract]
 anterior migration of *Nippostrongylus brasiliensis* in small intestine of rats during primary and secondary infections correlated to self-cure; experiments with prednisolone-treated rats showed that anterior migration is independent of worm expulsion

Hormones

- Hosier, D. W.; and Durning, J. P., 1975, J. Parasitol., v. 61 (3), 564-566
Nematospiroides dubius, male vs. female ICR mice challenged with 200 larvae after receiving one stimulating infection of 400 larvae, effect of gonadectomy or supplemental sex hormone treatment on worm burden

Hormones

- Ibanez, E. A.; et al., 1976, Gac. Vet., Buenos Aires (307), v. 38, 7-13
Babesia equi, equine, determination of carriers, application of glucocorticoids to produce hosts for treatment studies

Hormones

- Injeyan, H. S.; and Meerovitch, E., 1974, J. Protozool., v. 21 (5), 738-742
Crithidia sp., inhibition of overall growth and macromolecular synthesis by juvenile hormone, inhibition of RNA synthesis of particular interest, implications for mode of action in insect systems

Hormones

- Ioffe, I. D.; et al., 1977, Zhurnal Obsh. Biol., v. 38 (6), 885-892
Ixodes persulcatus; *Dermacentor silvarum*, effect of synthetic juvenile hormone analogue

Hormones

- Kelly, J. D.; and Dineen, J. K., 1973, Immunology, v. 24 (3), 551-558
Nippostrongylus brasiliensis, suppression of rejection in castrated male rats treated with ovine prolactin, main effect of prolactin is directed towards the immunologically specific lymphoid phase of the worm rejection mechanism

Hormones

- Khan, Z. I.; and De Rycke, P. H., 1975, Biol. Jaarb., Gent, v. 43, 173-178
Hymenolepis microstoma, increased protein content of 12 day old worms infecting mice injected daily with testosterone propionate, however, weight and glycogen content of worms remained unaffected; hormonal requirement may be related to host diet

Hormones

- Kowalski, J. C.; and Thorson, R. E., 1976, Internat. J. Parasitol., v. 6 (4), 327-331
Mesocestoides corti tetrathyridia, growth and asexual reproduction in vivo and in vitro as affected by certain lipid compounds (Williams and Law mixture, farnesol, ecdysterone, cholesterol, stigmaterol, lipid extracts from *M. corti* and *Hymenolepis diminuta*)

Hormones

- Laudisio, V.; Lirosi, G.; and Guarascio, A., 1970, Minerva Ginec., v. 22 (21), 1059-1063
 human vaginal trichomoniasis, relationship between hormonal levels and predisposition to vaginal infections

Hormones

- Lirosi, G.; and Guarascio, A., 1972, Minerva Ginec., v. 24 (1), 23-27
 human *Trichomonas vaginalis* vaginitis, successful treatment using estrogen hormones to alter vaginal environment

Hormones

- Long, P. L.; and Millard, B. J., 1976, Ztschr. Parasitenk., v. 48 (3-4), 287-290
Eimeria spp., immunized chickens, oocysts produced after corticosteroid treatment in some birds, possibly endogenous cycle continues or remains dormant; possible means of diagnosis of occult infection in apparently immune hosts

Hormones

- Machado, A.B.M.; Machado, C.R.S.; and Gomes, C. B., 1975, Experientia, v. 31 (10), 1202-1203
Trypanosoma cruzi, rats, experimental acute myocarditis, depletion of heart norepinephrine indicates massive involvement of cardiac postganglionic sympathetic fibres in acute Chagas disease

Hormones

- Mango, C.; Odhiambo, T. R.; and Galun, R., 1976, Nature, London (5549), v. 260, 318-319
Ornithodoros moubata, females, induction of super-moulting by ingestion of ecdysone or ponasterone A, increased body weight and egg output, possible practical implications

Hormones

- Meleney, W. P.; and Roberts, I. H., 1975, J. Parasitol., v. 61 (5), 956-959
 3 insect juvenile hormone mimics used as sprays for control of *Haematopinus eury-sternus* on cattle resulted in significant reduction of lice and in concomitant severe skin lesions associated with death or incomplete development of *Hypoderma* sp., therefore unsafe for use on mature cattle harboring both grubs and lice

- Hormones
Miller, J. A.; et al., 1976, J. Econom. Entom., v. 69 (3), 330-332
methoprene, insect growth regulator, applied to drinking water of cattle, inhibited development of *Haematobia irritans* in manure
- Hormones
Moncol, D. J., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 86-92
Strongyloides ransomi, biology and morphology of transcolostral phase in pigs
- Hormones
Ngwenya, B. Z., 1976, Cellular Immunol., v. 24 (1), 116-122
Trichinella spiralis, effect of lactation on cell-mediated immunity, cell transfer studies with lactating and non-lactating mice, lactogenic hormones apparently suppressed expression of adoptive immunity
- Hormones
Ngwenya, B. Z., 1976, J. Parasitol., v. 62 (6), 871-873
Trichinella spiralis, suppression of rejection in mice treated with ovine prolactin
- Hormones
Nosek, J.; and Rehacek, J., 1977, Biologia, Bratislava, s. B, Zool., v. 32 (2), 101-103
abnormalities in laboratory bred *Hyalomma dromedarii* apparently due to hormonal disorder rather than mechanical injury
- Hormones
Novak, M., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 422-423 [Letter]
Mesocostoides tetrathyridia, oestradiol increased considerably the invasion of mice livers by tetrathyridia
- Hormones
Novak, M., 1976, Experientia, v. 32 (12), 1529-1530
Taenia crassiceps, gonadectomy of mouse hosts inhibited asexual reproduction of cysticerci considerably and increased the average size of the larvae
- Hormones
Patton, S.; and Drudge, J. H., 1977, Am. J. Vet. Research, v. 38 (12), 2059-2066
Strongylus vulgaris, ponies given repeated small doses of infective larvae, acquired resistance against challenge exposure; clinical and hematologic responses, corticosteroid and/or antibiotic therapy did not alter immune response
- Hormones
Paysinger, J. T.; and Adkins, T. R., jr., 1977, J. Georgia Entom. Soc., v. 12 (3), 255-260
Haematobia irritans, cattle fed methoprene in mineral supplements, decrease of adult horn fly counts on cattle and adult emergence in fecal samples
- Hormones
Phares, C. K.; and Carroll, R. M., 1977, J. Parasitol., v. 63 (4), 690-693
Spirometra mansonioides, lipogenic effect of plerocercoid infection in intact hamsters, distinctly unlike lipolytic effect reported for mammalian growth hormone
- Hormones
Phares, C. K.; Hofert, J. F.; and Pettinger, C. L., 1976, Gen. and Comp. Endocrinol., v. 28 (1), 103-106
Spirometra mansonioides, hypophysectomized-plerocercoid-infected rats, growth stimulation of lymphatic tissue: in vitro incorporation of ³H-labeled nucleosides into DNA and RNA of isolated thymocytes; spleen thymidine kinase activity
- Hormones
Phares, C. K.; and Ruegamer, W. R., 1973, Prep. Biochem., v. 3 (4), 375-381
Spirometra mansonioides, plerocercoid growth factor, isolated by means of polyacrylamide gel electrophoresis and identified by pigeon crop sac assay
- Hormones
Prasad, R. S., 1976, Ztschr. Parasitenk., v. 50 (1), 81-86
Xenopsylla cheopis and *X. astia fed* on sterile male rats treated with cortisone and progesterone, no influence on reproductive potential
- Hormones
Riddiford, L. M., 1975, Invert. Immun. (Maramorosch and Shope), 339-353
hormonal relationships between parasites and their insect hosts, review
- Hormones
Sanchez, G.; and Alderete, J. F., 1975, Comp. Biochem. and Physiol., v. 52 (4A), 623-626
Trypanosoma rhodesiense, adrenalectomized rats, increased parasitemia and earlier death, relation to decreases in total liver glycogen, reduced rate of glucose consumption by trypanosomes, endocrine system as possible regulator of trypanosome biochemistry, possible mechanism in pathogenesis of trypanosomiasis
- Hormones
Sauer, J. R.; Mincolla, P. M.; and Needham, G. R., 1976, Comp. Biochem. and Physiol., v. 53 (2C), 63-66
Amblyomma americanum, isolated salivary glands, effects of adrenaline, cyclic AMP, and inhibitors on function (uptake of chloride and fluid secretion)
- Hormones
Sen, D. K.; and Jones, W. R., 1974, J. Protozool., v. 21 (3), 446 [Abstract]
Trypanosoma duttoni, castrated and uncastrated mice on two different diets, growth response and parasitemia

Hormones

- Spaldonova, R.; et al., 1973, Izvest. Tsentral. Khelint. Lab., v. 16, 197-203
Trichinella spiralis, white mice, effect of aloxan diabetes on dynamics of intestinal trichinosis and intensity of muscular infection, hyperglycaemia may inhibit allergic reaction of host to infection

Hormones

- Stibbs, H. H.; and Seed, J. R., 1976, Exper. Parasitol., v. 39 (1), 1-6
Trypanosoma brucei gambiense, chronically infected *Microtus montanus*, elevated serum and hepatic tyrosine aminotransferase, high serum levels may result from lysis of parasites (possibly due to agglutination by antibody) containing high levels of enzyme, implications for catecholamine metabolism and consequently for pathologic behavioral syndrome

Hormones

- Stockdale, P. H. G.; and Niilo, L., 1976, Canad. Vet. J., v. 17 (2), 35-37
Eimeria zuernii, production of bovine coccidiosis, treatment with dexamethasone enhances reproduction by parasite, produces acute disease rather than mild infection, possibly lowers host resistance

Hormones

- Stoye, M.; and Krause, J., 1976, Zentralbl. Vet.-Med., Reihe B, v. 23 (10), 822-839
Ancylostoma caninum, impatently infected lactating ovariectomized dog, reactivation of inhibited larvae, oestradiol and progesterone induced larval excretion in milk

Hormones

- Sukkar, M. Y.; Omer, A. H. S.; and Ahmed, N. El D., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 327-332
Schistosoma mansoni in humans with hepatic enlargement, impaired glucose tolerance and abnormal growth hormone secretion, possible relationships

Hormones

- Sutton, R. J., 1976, Research Vet. Sc., v. 21 (3), 354-355
Taenia ovis, sheep, corticosteroids increasing number of cysticerci, possible method of obtaining sufficient viable cysticerci for research

Hormones

- Takahashi, M.; and Ohtaki, T., 1975, Eisei Dobutsu (Japan. J. San. Zool.), v. 26 (4), 237-239
Pediculus humanus corporis, *Cimex lectularius*, ovicidal effects of methoprene and hydroxypropane, juvenile hormone analogs; methoprene less effective on *P. humanus corporis*, more effective on *C. lectularius*

Hormones

- Tinsley, R. C., 1977, Parasitology, v. 75 (2), v [Abstract]
Polystoma integerrimum, new studies and reconsideration of earlier studies indicate no deleterious effect of host sex hormones on natural levels of parasitization in *Rana temporaria*

Hormones

- Titchen, D. A.; and Anderson, N., 1977, Austral. Vet. J., v. 53 (8), 369-373
Ostertagia, sheep and cattle, physiopathology of gastritis, secretory changes of parasitized and non-parasitized mucosa, review

Hormones

- Toshkov, A.; et al., 1977, Dokl. Bolgar. Akad. Nauk, v. 30 (6), 895-896
Trichinella spiralis-infected rats followed by infection with *Erysipelothrix rhusiopathiae*, effect of ACTH on defence mechanisms is counteracted by *T. spiralis* (inhibition of non-specific protective factors)

Hormones

- Tseng, M. T.; and Mueller, J. F., 1977, J. Parasitol., v. 63 (1), 168-169
Spirometra mansonioides, rats, effect of sparganium growth factor on pituitary cytology, suppression of somatotrops, highly active corticotrops

Hormones

- Veech, R. L.; et al., 1976, J. Toxicol. and Environment. Health, v. 1 (5), 793-806
Spirometra mansonioides growth factor vs. bovine growth hormone, comparison of metabolic effects on rat liver in vivo

Hormones

- Vercelli-Retta, J.; et al., 1975, Ztschr. Parasitenk., v. 48 (1), 15-23
Echinococcus granulosus, hydatid cysts from human and bovine lungs, germinal membrane, histochemistry and histoenzymology, enzymes, lipids, metabolic pathways, possible endocrine system; possible future pharmacological studies for interference with parasite development

Hormones

- Wartofsky, L.; et al., 1977, J. Clin. Endocrinol. and Metab., v. 44 (1), 85-90
acute falciparum malaria, nature of thyroidal suppression, integrity of pituitary response to thyrotropin-releasing hormone and alterations in serum T_3 and reverse T_3

Hormones

- Wilson, P. A. G., 1977, Parasitology, v. 75 (2), 233-239
Strongyloides ratti, rats (exper.), maternal worm burden when weaning is varied in relation to injection, effect of short-term stimulus (only 1 hr suckling) on maternal worm burden, working hypothesis to explain path-finding by migrating worms in lactating rats

Hormones

- Younger, R. L.; et al., 1975, J. Med. Entom., v. 12 (5), 517-524
Hypoderma, cattle yearlings treated topically with 5 juvenile hormone analogues, development of enlarged warbles with accumulated exudate, isolation of alpha hemolytic streptococci, no definitive changes in serum chemistry or haematological values, no acute toxic effects

- Host finding. See Host perception by parasites.
- Host, Parasite-free. See Gnotobiotic animals.
- Host-parasite relationships. [See also Adaptation]
- Host-parasite relationships
Adams, V. D.; DeAngelis, D. L.; and Goldstein, R. A., 1976, Environment. Sc. Div. Publication (837), Oak Ridge National Lab., 53 pp.
analysis of time delay in a host-parasite model
- Host-parasite relationships
Alexander, J.; and Vickerman, K., 1975, J. Protozool., v. 22 (4), 502-508
Leishmania mexicana mexicana-infected mouse peritoneal macrophages, fusion of host cell secondary lysosomes with parasitophorous vacuole, may be pathway for nutrients, drugs, antibodies
- Host-parasite relationships
Anderson, R. M., 1977, Parasitology, v. 75 (2), vii [Abstract]
critical assessment of Crofton's model of population dynamics of host-parasite interactions
- Host-parasite relationships
Arthur, D. R., 1973, J. Wildlife Dis., v. 9 (1), 74-84
tick-host-disease relationships, review
- Host-parasite relationships
Ayala, S. C., 1973, Am. Midland Naturalist, v. 89 (2), 266-280
community dynamics of sandfly-borne protozoan infections: central California
- Host-parasite relationships
Chang, K. P.; and Dwyer, D. M., 1976, Science (4254), v. 193, 678-680
Leishmania donovani grown in hamster peritoneal macrophages in vitro, multiplication within host cell phagolysosomes, survival mechanism of this intracellular parasite apparently based upon resistance to macrophage lysosomal enzymic digestion
- Host-parasite relationships
Clarke, B., 1976, Symposia Brit. Soc. Parasitol., v. 14, 87-103
argument that genetic interactions between parasites and their hosts have played important perhaps even dominant role in maintaining protein polymorphisms, 3 hypotheses with supporting evidence, mathematical models of specific and general host resistance, consequences for evolutionary theory, symposium presentation
- Host-parasite relationships
Crompton, D. W. T.; and Nesheim, M. C., 1976, Advances Parasitol., v. 14, 95-194
host-parasite relationships in alimentary tract of domestic birds, extensive review: nutrition of domestic birds; alimentary tract as habitat for parasites; alimentary tract of germ-free birds; parasite distribution within alimentary tract; relationships between parasites and host digestive physiology and nutrition
- Host-parasite relationships
Davey, J. T.; and Gee, J. M., 1976, J. Marine Biol. Ass. United Kingdom, v. 56 (1), 85-94
Mytilicola intestinalis, survey, incidence in mussels, suggested differences in infestation levels between estuarine and open-coast populations due primarily to differences in degree of exposure to wave action, other factors include size, population density and location of hosts
Mytilus sp. (digestive tract): southwest of England
- Host-parasite relationships
Esch, G. W.; Gibbons, J. W.; and Bourque, J. E., 1975, Am. Midland Naturalist, v. 93 (2), 339-353
analysis of relationship between stress and parasitism
- Host-parasite relationships
Hildebrand, H. F., 1976, Ztschr. Parasitenk., v. 49 (3), 193-215
Didymophyes gigantea, electron microscopy of epimerite and protomerite, relationship between parasite surface and host cell, periparasitic space, modified structure of host cell
- Host-parasite relationships
Hommel, M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 268 [Demonstration]
Leishmania donovani, infection of asexual tumor cells in mice (exper.), possible usefulness in study of host-parasite relationships at cellular level, little immunosuppressive effect of tumor on parasitemia
- Host-parasite relationships
Jones, T. C., 1974, J. Reticuloendothel. Soc., v. 15 (5), 439-450
interactions of intracellular parasites (including protozoa with special emphasis on Toxoplasma gondii) with macrophages, review: endocytosis, the entry process; survival within vacuolar system; effects of immunity on intracellular parasitism
- Host-parasite relationships
Jordan, A. M., 1976, Vet. Parasitol., v. 2 (1), 143-152
Glossina spp. as vectors of trypanosomes, factors affecting infection rates in tsetse flies, possible immune responses, effects of vector on characteristics of strains of trypanosomes, review
- Host-parasite relationships
Kethley, J. B.; and Johnston, D. E., 1975, Misc. Publication Entom. Soc. Am., v. 9 (5), 231-236
review of evolutionary relationships of bird and mammal ectoparasites and their hosts, resource tracking patterns of parasites through evolutionary time, selective pressure from hosts, host-transfers through time, discordances of parasite and host taxonomy in relation to parasite's ecological needs on host topography; particular discussion of Syringophilinae with mathematical analysis of host and parasite taxonomy

- Host-parasite relationships
Koerting, W., 1975, *Fisch u. Umwelt* (1), 3-11
host-parasite relationships from the point
of view of fishery biology, parasite effects
on host, immunity, control, review
- Host-parasite relationships
Lang, B. Z., 1975, *Proc. Oklahoma Acad. Sc.*,
v. 55, 147-149
Fasciola hepatica, mechanism of acquired im-
munity, host-parasite relationships, experi-
mental animals, review
- Host-parasite relationships
Lapan, E. A., 1975, *Comp. Biochem. and Physi-
ol.*, v. 52 (4A), 651-657
dicyemid Mesozoa, contribution to acidifica-
tion of *Octopus vulgaris* urine, symbiotic
rather than parasitic relationship
- Host-parasite relationships
Lewis, D. H., 1975, *J. Protozool.*, v. 22 (3),
53A [Abstract]
Leishmania mexicana mexicana, in vitro stud-
ies on intracellular relationship with lyso-
somal system of normal vs. sensitized host
macrophages
- Host-parasite relationships
MacMillan, W. G., 1975, *J. Protozool.*, v. 22
(3), 42A [Abstract]
nature of cell junction between *Nematocystis*
magna and an epithelial cell of its host
Lumbricus terrestris
- Host-parasite relationships
May, R. M., 1977, *Parasitology*, v. 75 (3),
259-276
dynamical aspects of host-parasite associa-
tions: remedy of defects of Crofton's
model
- Host-parasite relationships
Mazen, L.; Gull, K.; and Gutteridge, W. E.,
1975, *J. Protozool.*, v. 22 (3), 54A [Abstract]
Plasmodium chabaudi-infected erythrocytes
examined using freeze fracture technique,
nature of host-parasite interface
- Host-parasite relationships
Noble, E. R., 1974, *J. Protozool.*, v. 21 (1),
1-4
3 ecologic approaches to study of protozoan
parasitism: studies of energy flow between
parasite and host; systems analysis; studies
of nutrition through analysis of parasite's
environment (Past President's address, Soc.
Protozool.)
- Host-parasite relationships
Peterson, P. C., 1972, *Steenstrupia*, v. 2
(14), 197-205
Alloptidae and Proctophyllodidae, associa-
tions between orders of birds and feather
mite families
- Host-parasite relationships
Peterson, P. C., 1975, *Misc. Publication Ent-
tom. Soc. Am.*, v. 9 (5), 237-242
feather mites of birds, host-parasite dis-
tribution by taxa, feather anatomy, mathe-
matical analysis of barb width and location
in relation to mite distribution, basis for
further studies of host-parasite evolution
- Host-parasite relationships
Podesta, R. B.; and Mettrick, D. F., 1976,
Canad. J. Zool., v. 54 (5), 694-703
lack of clinical manifestations in *Hymeno-
lepis diminuta*-caused maldigestion and mal-
absorption in rats, determination of com-
pensatory mechanisms including enhanced
glucose- and bicarbonate-stimulated trans-
port in infected small intestine, low mucos-
al permeability, and functional compensation
by colon
- Host-parasite relationships
Price, R. D., 1972, *J. Med. Entom.*, v. 9 (6),
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Geomydoecus, sympatric species on *Thomomys*
bottae-umbrinus complex, discussion
- Host-parasite relationships
Redetzke, K. A.; and Canaris, A. G., 1977, *Ex-
per. Parasitol.*, v. 41 (1), 229-241
Brachylaime microti in snail and rodent
hosts, systems analysis applied to ecology
of host-parasite system, mechanistic simula-
tion model tested against actual observations
- Host-parasite relationships
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morosch and Shope)*, 339-353
hormonal relationships between parasites
and their insect hosts, review
- Host-parasite relationships
Rudzinska, M. A.; et al., 1976, *Cell and Tissue
Research*, v. 169 (3), 323-334
Babesia microti invades host erythrocyte
through invagination of host plasma membrane
with formation of parasitophorous vacuole,
vacuolar space disappears and membrane of
parasite and vacuole become closely adjacent,
outer membrane then disintegrates
- Host-parasite relationships
Seed, T. M.; and Kreier, J. P., 1976, *Infect.
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Plasmodium berghei, surface charge and
lectin-binding capacity of isolated malaria
parasites vs. host erythrocytes compared by
chromatographic, electrophoretic, and cyto-
chemical methods
- Host-parasite relationships
Sonenshine, D. E., 1975, *Misc. Publication Ent-
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population dynamics, influence of host-
parasite interactions, *Ixodes ricinus* in
relation to tick-borne encephalitis; *Derma-
centor variabilis* in relation to Rocky
Mountain spotted fever, review
- Host-parasite relationships
Soulsby, E. J. L., 1976, *Pathophysiol. Parasit.
Infect.*, 1-9
determinants of parasitism: factors in
pathogenicity (factors determining host-
parasite compatibility; factors determining
pathogenicity; survival of parasites in
hosts), review

Host-parasite relationships

Wateror, J. L.; and Van Landingham, S. B., 1976, *J. Parasitol.*, v. 62 (1), 152-153
 host-induced histochemical variations in *Telorchis bonnerensis* reared in *Ambystoma tigrinum* vs. *Chelydra serpentina*, histochemical resemblance to *T. corti* when both reared in *C. serpentina*

Host-parasite relationships

Weiser, J., 1975, *J. Protozool.*, v. 22 (3), 70A [Abstract]
 microsporidians in simuliids (including *Pleistophora debaisieuxi* in *Odagmia ornata*; and *Glugea*), provocation of neoplastic xenoma

Host-parasite relationships

Weiser, J., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 263-270
Pleistophora debaisieuxi, xenomas (xenoparasitic complexes or parasite-host interactions) in blackflies, *Odagmia ornata* (fat body), syncytial and neoplastic types, morphology: Kokorin near Prague

Host-parasite relationships

Wenk, P., 1977, *Naturw. Rundschau*, Stuttgart, v. 30 (10), 353-359
 helminths, role of immune reactions in host-parasite relationships, life cycles, modes of transmission, superinfection, comprehensive review of complex interrelationships

Host-parasite relationships

Whitlock, J. H.; and Georgi, J. R., 1976, *Parasitology*, v. 72 (3), 207-224
 biological controls in mixed trichostrongylid infections (predominantly *Haemonchus contortus cayugensis*) in sheep, different ecosystems (barn vs. pasture) and different treatment groups, course of infections (erythrocyte loss, fecal egg counts, hematocrit values), "Anaphylactoid 'self-cure' did not occur in this experiment but something like premunition certainly did."

Host-parasite relationships

Wilhelm, W. F.; and Pope, D. C., 1974, *J. Protozool.*, v. 21 (3), 434-435 [Abstract]
Tritrichomonas muris, infections of laboratory colony of *Mesocricetus auratus* (caecum, small intestine, colon), hamsters fed high protein diet became trichomonad free, trichomonad-free hamsters showed higher mortality, weight loss, and fur thinning suggesting possible mutualistic relationship, successful transfaunation to laboratory and wild *Mus musculus*, reinfection of trichomonad-free *Mesocricetus auratus*, parasite morphology

Host perception by parasites. [See also Attractants; Taxis]

Host perception by parasites

Basch, P. F., 1976, *Exper. Parasitol.*, v. 39 (1), 150-169
Schistosoma mansoni, intermediate host specificity (*Biomphalaria*), extensive review

Host perception by parasites

Browning, T. O., 1976, *Physiol. Ertom.*, v. 1 (2), 107-114
Rhipicephalus pulchellus, *R. appendiculatus*, aggregation on grass stems, laboratory and field studies, no evident response to chemical stimulus

Host perception by parasites

Cable, R. M., 1972, *Zool. J. Linn. Soc., London*, v. 51, Suppl. 1, 1-18
 digenetic trematodes, behaviour, review (reproduction, hatching, penetration, response to toxic and host stimulation; cercarial emergence, swimming)

Host perception by parasites

Christensen, N. O.; Frandsen, F.; and Nansen, P., 1977, *J. Helminth.*, v. 51 (2), 105-113
Schistosoma mansoni, *S. intercalatum*, comparative efficiency of 5 different methods of infection of mice, description of new radioisotope assay for cercarial host-finding capacity

Host perception by parasites

Christensen, N. O.; Nansen, P.; and Frandsen, F., 1976, *J. Parasitol.*, v. 62 (5), 698-701
Fasciola hepatica miracidia, host-finding capacity for *Lymnaea truncatula* in relation to environmental temperature

Host perception by parasites

Christensen, N. O.; Nansen, P.; and Frandsen, F., 1976, *Parasitology*, v. 73 (2), 161-167
Fasciola hepatica miracidia, various aspects of host-finding capacity: infection rate of target *Lymnaea truncatula* markedly lowered by some decoy hosts but not by others; stronger attraction towards *L. truncatula* than *L. pereger*; inability to penetrate intact *L. truncatula* egg clusters

Host perception by parasites

Christensen, N. O.; Nansen, P.; and Frandsen, F., 1977, *Parasitology*, v. 74 (3), 285-290
Fasciola hepatica, interference with miracidial snail finding by various aquatic organisms

Host perception by parasites

Croll, N. A., 1972, *Zool. J. Linn. Soc., London*, v. 51, Suppl. 1, 31-52
 larval nematodes, behavior, review (nematode senses, locomotion, movement patterns as tracked on agar, mechanisms of orientation)

Host perception by parasite

DeVaney, J. A.; et al., 1973, *J. Med. Entom.*, v. 10 (6), 591-595
Cochliomyia hominivorax, attractancy of bovine blood fractions incubated and inoculated with known bacteria species resulted from bacteria and/or from compounds produced by them

Host perception by parasites

Drenner, R. W.; and Camin, J. H., 1977, *J. Kansas Entom. Soc.*, v. 50 (4), 514 [Abstract]
Haemaphysalis leporispalustris, climbing behavior of larvae, role in host-finding and host specificity

Host perception by parasites

- Dukes, J. C.; and Rodriguez, J. G., 1976, J. Kansas Entom. Soc., v. 49 (4), 562-566
Dermacentor variabilis, *Amblyomma americanum*, *Rhipicephalus sanguineus*, choice tube bioassay to measure responses to various host odors and several chemical compounds

Host perception by parasites

- Haas, W., 1976, Ztschr. Parasitenk., v. 50 (2), 216-217
Schistosoma mansoni cercaria, host identification, fatty acids in substrates stimulating penetration following fixation, possibility of control by blocking chemoreceptors

Host perception by parasites

- Leahy, (Sr.) M. G.; et al., 1975, J. Med. Entom., v. 12 (4), 413-414
 assembly pheromones from *Ornithodoros* and *Argas* species, interspecific responses; feeding increased pheromone production and decreased response; possible function in host location

Host perception by parasites

- Lom, J.; and Cerkasovova, A., 1974, J. Protozool., v. 21 (3), 457 [Abstract]
Ichthyophthirius multifiliis theronts, host-finding

Host perception by parasites

- Mason, P. R., 1977, Parasitology, v. 75 (3), 325-338
Schistosoma mansoni, miracidial response to snail-conditioned water (SCW), effect of various treatments of SCW on its ability to stimulate miracidial activity, importance of 'active spaces' rather than concentration gradients in miracidial host-location

Host perception by parasites

- Nansen, P.; Frandsen, F.; and Christensen, N. O., 1976, Parasitology, v. 72 (2), 163-171
Fasciola hepatica, various common freshwater molluscs exposed to miracidia labelled with radioselenium, differential incorporation of radioactivity, evidence for chemical attraction of miracidia to hosts

Host perception by parasites

- Prechel, D. P.; Cain, G. D.; and Nollen, P. M., 1976, J. Parasitol., v. 62 (5), 693-697
Megalodiscus temperatus miracidia, responses to amino and sialic acids found in snail (*Helisoma trivolvis*) conditioned water

Host perception by parasites

- Sponholtz, G. M.; and Short, R. B., 1976, J. Parasitol., v. 62 (1), 155-157
Schistosoma mansoni, miracidia, stimulation by snail (*Biomphalaria glabrata*) conditioned water, evidence that lowered calcium/magnesium ratio may be important in attracting miracidia to snails

Host perception by parasites

- Stibbs, H. H.; et al., 1976, Nature, London (5553), v. 260, 702-703
 magnesium emitted by *Biomphalaria glabrata* alters swimming behaviour of *Schistosoma mansoni* miracidia

Host perception by parasites

- Upatham, E. S., 1974, Ann. Trop. Med. and Parasitol., v. 68 (3), 343-352
Schistosoma mansoni cercariae, dispersion in natural standing and running waters determined by cercaria counts and mouse exposure: St. Lucia

Host perception by parasites

- Webb, J. P., jr.; George, J. E.; and Cook, B., 1977, Nature, London (5593), v. 265, 443-444
Ornithodoros concanensis makes use of vocal sound of *Petrochelidon pyrrhonota* as a cue in its host-finding behavior

Host Resistance. See Resistance, Host.Host specificity. See Specificity, Host.Host, Transport. See Vectors, Mechanical.Humidity. [See also Climate and weather; Desiccation; Water]

Humidity

- Ahluwalia, J. S., 1976, Indian J. Animal Sc., v. 46 (5), 256-267
Cooperia curticei, survival, migration on soil and grass of infective larvae under natural conditions, various meteorological data

Humidity

- Anderson, W. I.; Reid, W. M.; and Johnson, J. K., 1976, Poultry Science, v. 55 (4), 1429-1435
Eimeria tenella, chickens, high environmental temperature and humidity elevated body temperatures of host impairing survival and development of some parasites resulting in decreased severity of coccidiosis, impractical as control measure because of problems of timing the heat treatment and raising the temperature in large chicken houses

Humidity

- Artz, V., 1975, Entom. Germanica, v. 1 (2), 105-143
 ectoparasites of small mammals, prevalence in relation to ecological factors (geology, soil type, vegetation patterns), family of host and sex of host; technique for live parasitism rates: Schleswig-Holstein

Humidity

- Badie, A., 1975, Ann. Recherches Vet., v. 6 (3), 259-264
Dicrocoelium lanceolatum metacercaria, annual activity cycle of parasitized ants, numbers hooked to vegetation at certain parts of the day, possible relationships to temperature and rainfall, risk of parasitism in sheep flocks, possible basis for control

Humidity

- Branagan, D., 1973, Trop. Animal Health and Prod., v. 5 (3), 153-165
Rhipicephalus appendiculatus, survival and development of all 3 instars under quasi-natural conditions in Kenya

Humidity

- Bryan, R. P., 1976, Austral. J. Agric. Research, v. 27 (4), 567-574
gastrointestinal nematodes of cattle, effect of *Onthophagus gazella* in dung pats on numbers of infective larvae under moist climatic conditions, ecological distribution of larvae resulting from dung beetle activity

Humidity

- Bull, M.; and Smyth, M., 1973, Austral. J. Zool., v. 21 (1), 103-110
Aponomma hydrosauri, *Amblyomma albolimbatum*, *A. limbatum*, abutting allopatric distributions, water balance of nymphs and adults in relation to distribution: South Australia

Humidity

- Chhabra, M. B.; and Ruprah, N. S., 1976, Indian Vet. J., v. 53 (3), 180-184
Oestrus ovis larvae, sheep, goats, survey, highest incidence in sheep, pupal period and longevity of adult *O. ovis* dependent upon temperature and humidity: abattoir at Hissar, Haryana

Humidity

- Chiriac, E.; and Popescu, A., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 61-68
trematodes of rodents, relationships to humid habitat and mixed vegetable and animal diet of hosts: Roumanie

Humidity

- Evans, A. A. F.; and Perry, R. N., 1976, Organ. Nematodes (Croll), 383-424
survival strategies in nematodes, review: quiescence with special reference to cryptobiosis; diapause (in unhatched larvae; in larvae outside the egg; in adult stages; induction and termination; morphological and behavioral correlates)

Humidity

- Gemmell, M. A., 1977, Exper. Parasitol., v. 41 (2), 314-328
Taenia spp., *Echinococcus granulosus*, eggs, hatching characteristics, survival, infectivity of embryos, influence of various factors (different worms, different segments of same worm, moisture, temperature, length of storage, washing), epidemiological implications in regulation of tapeworm populations

Humidity

- Hair, J. A.; Sauer, J. R.; and Durham, K. A., 1975, J. Med. Entom., v. 12 (1), 37-47
Amblyomma americanum, *A. maculatum*, *Dermacentor variabilis*, critical equilibrium humidity, effects of low and high humidities on rates of weight change, total water content, hemolymph volume, and humidity preference, correlation with geographical distribution and resistance to dehydration

Humidity

- Harry, O. G., 1973, J. Protozool., v. 20 (4), 526
4 species of gregarines in *Tenebrio molitor*, incidence, effect of seasonal changes in temperature and humidity on infection: British Isles

Humidity

- Howell, F. G.; and George, J. E., 1973, J. Med. Entom., v. 10 (5), 459-469
Argas cooleyi, behavior and water balance, various relative humidities

Humidity

- Hsu, C. K.; and Levine, N. D., 1977, Am. J. Vet. Research, v. 38 (8), 1115-1119
Haemonchus contortus, *Trichostrongylus colubriformis*, development of infective larvae under cyclic vs. constant conditions of temperature and humidity, degree-day concept appears to be applicable

Humidity

- Ismailov, T., 1976, Dokl. Akad. Nauk UzSSR (9), 65-66
Parascaris equorum, effect of humidity and temperature on embryogenesis under field conditions in Uzbekistan; metamorphosis from April to October, anabiosis from November to March

Humidity

- Maddox, J. V., 1977, Misc. Publication Entom. Soc. Am., v. 10 (3), 3-18
Nosema necatrix, *N. trichoplusiae*, viability of spores, effects of sunlight, temperature, water or humidity, substrate or chemicals; potential stability as biological control agents against insect pests

Humidity

- Mark, D. L., 1975, J. Parasitol., v. 61 (3), 484-488
Ancylostoma caninum, infective larvae, survival on outdoor bluegrass plots in 40 experiments over 1 year

Humidity

- Markov, G. S.; and Mozgovoi, A. A., 1969, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 20, 91-96
low level of helminth infection in *Viper a berus* influenced by temperature, humidity and peculiarities of its geographic distribution and biotic origin

Humidity

- Misra, S. C.; and Ruprah, N. S., 1974, Indian Vet. J., v. 51 (2), 147-148
Haemonchus larvae, survival on 2 pastures under changing temperature and relative humidity: India

Humidity

- Mock, D. E.; and Matthyse, J. G., 1977, J. Kansas Entom. Soc., v. 50 (4), 518 [Abstract]
Bovicola bovis, study of ambient conditions of temperature and humidity within a heavily parasitized cow's hair coat

Humidity

- Motomura, I., 1967, Nettai Igaku (Trop. Med.), v. 9 (4), 201-225
Toxoplasma gondii, mice (exper.), survival comparisons of Beverley and RH strains under various physico-chemical conditions (osmotic pressure, pH, temperature, moisture, irradiation)

Humidity

Muraleedharan, K.; et al., 1976, Mysore J. Agric. Sc., v. 10 (1), 105-117
prevalence and incidence of *Schistosoma nasale* in cattle and buffaloes, disease dependent upon host age and sex, number of infected snail intermediate hosts, temperature, and rainfall: Karnataka State (Dhanayakanapura, Bangalore District; Hunchipura, Mandya District)

Humidity

Norval, R. A. I., 1977, J. Parasitol., v. 63 (4), 740-747
Amblyomma hebraeum, survival and rate of development in relation to temperature and humidity under laboratory and field conditions, longevity of unfed ticks, ecological implications of results

Humidity

Ollerenshaw, C. B., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 83-121
Fasciola hepatica, ecological factors contributing to epidemiology in Britain, speculations for Italy, need for field investigations

Humidity

Parkin, J. T., 1976, Parasitology, v. 73 (3), 343-354
Nematodirus battus, egg development and hatching, effect of variations in humidity and osmotic pressure

Humidity

Plasota, K., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 47-60
helminths of frogs, comparison of aquatic and terrestrial hosts, relation of parasite fauna to environment, food supplies and food habits, host life cycle, temperature, rainfall, season, age and sex of host, competition between species of parasite, localization within host: Kampinos National Park, Poland

Humidity

Rechav, Y.; and von Maltzahn, H. C., 1977, Ann. Entom. Soc. Am., v. 70 (5), 768-770
Boophilus decoloratus, *Rhipicephalus evertsi evertsi*, water loss from eggs at various temperatures and relative humidities and correlation between weight loss, hatching, and saturation deficits

Humidity

Robertson, A. S.; et al., 1975, J. Med. Entom., v. 12 (5), 525-529
Amblyomma americanum, unfed male and female adults, daily and seasonal behavior in relation to temperature, humidity, and photoperiod in different habitats, behavioral patterns suggest activity regulation by body water content: Cookson Hills State Game Refuge, Cherokee County, Oklahoma

Humidity

Robertson, A. S.; et al., 1975, J. Med. Entom., v. 12 (5), 530-534
Amblyomma americanum, molting behavior of engorged nymphs and larvae in 2 contrasting habitats, effect of environmental conditions on molting time and post-molt activity: Cherokee Co., Oklahoma

Humidity

Rudolph, D.; and Knuelle, W., 1974, Nature, London (5452), v. 249, 84-85
ixodid ticks, water vapor uptake from atmosphere, site (mouthparts) and mechanism (may be related to hygroscopic properties of salivary secretion)

Humidity

Samish, M., 1977, Nature, London (5632), v. 270, 51-52
Theileria annulata, temperature of 37°C and relative humidity of 95% stimulates production of infective parasite forms in infected adult *Hyalomma excavatum* ticks without the need for a blood meal

Humidity

Samish, M., 1977, J. Protozool., v. 24 (4), 67A-68A [Abstract]
Theileria annulata, transmission by *Hyalomma excavatum*, high temperature and humidity may cause uninfected particles in unfed ticks to change into infective ones

Humidity

Shiranovich, P. I.; et al., 1977, Izvest. Akad. Nauk Azerbaidzhan. SSR, s. Biol. Nauk (2), 89-95
Siphonaptera of *Meriones erythrorus*, seasonal distribution, temperature and precipitation in relation to population dynamics of host, incidence of plague and its epizootiology: Transcaucasus

Humidity

Wilkinson, P. R., 1971, Acarologia, v. 12 (3), 492-508
Boophilus microplus, factors affecting distribution in RTS (reputed tick scarcity) areas as compared to tick infested areas in surrounding districts: Australia

Hungary

Edelenyi, B., 1974, Magy. Allatvilaga (Fauna Hungar.) (117), v. 2 (5), 343 pp.
Digenea, descriptions, hosts, keys, faunistic monograph: Hungary

Hungary

Gonda, E.; and Kecskemeti, I., 1972, Parasitol. Hungar., v. 5, 259-272
prevalence survey, intestinal parasites in school children in Veszperm County (*Enterobius vermicularis*; *Hymenolepis nana*; *Trichuris trichiura*; *Ascaris lumbricoides*)

Hungary

Juranyi, R.; and Kleeberg, V. S., 1972, Parasitol. Hungar., v. 5, 247-257
incidence survey, intestinal parasites in children in hospital wards: Budapest (*Entamoeba histolytica*; *Giardia lamblia*; *Enterobius vermicularis*; *Ascaris lumbricoides*; *Trichuris trichiura*; *Taenia saginata*; *Hymenolepis nana*)

Hungary

Murai, E., 1972, Parasitol. Hungar., v. 5, 47-81
tapeworms, geographic distribution and infection intensity in rodents of the genus *Apodemus*

Hybridization

Balashov, Iu. S., 1970, *Parazitologiya*, Leningrad, v. 4 (3), 274-282
experimental interspecific hybridization between *Ornithodoros papillipes*, *O. tartakovskyi*, and *O. verrucosus*, genetic and physical incompatibilities as possible natural mechanisms of reproductive isolation

Hybridization

Buckner, S. C.; and Nickol, B. B., 1975, *J. Parasitol.*, v. 61 (6), 991-995
comparison of *Moniliformis clarki* and *M. moniliformis* reflects distinctness of species, definitive and intermediate host specificity, laboratory life cycles, failure to hybridize

Hybridization

Daskalov, P., 1974, *Izvest. Tsentral. Khel'mint. Lab.*, v. 17, 59-72
Ostertagia circumcincta, *O. trifurcata*, *Teladorsagia davtiani*, males crossed with different morphological types of female *Ostertagia*, no reproductive barriers between them, proposed that they be considered the *Ostertagia circumcincta* complex

Hybridization

Denham, D. A.; McGreevy, P. B.; and Suswillo, R. R., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 13-14 [Demonstration]
hybrid microfilariae obtained by cross-mating *Brugia patei* and *B. pahangi*

Hybridization

Graham, O. H.; Price, M. A.; and Trevino, J. L., 1972, *J. Med. Entom.*, v. 9 (6), 531-537
Boophilus annulatus and *B. microplus*, cross-mating successful, sterility of males and reduced fertility of females of hybrid offspring, close relationship of species, reproductive isolation

Hybridization

Orlov, I. V.; Britov, V. A.; and Boev, S. N., 1976, *Vestnik Sel'skokhoz. Nauki* (243) (12), 61-68
Trichinella spp., experimental hybridization between species shows very limited crossing, reproductive isolation; useful technique for species diagnosis

Hybridization

Rollinson, D., 1976, *Parasitology*, v. 73 (2), iv [Abstract]
Eimeria mivati, *E. acervulina*, electrophoretic forms of enzymes, high frequency of interspecific variation, crosses produce strains characterized by glucose phosphate isomerase-2 (characteristic of *E. acervulina*) and ability to passage in eggs (*E. mivati*), results support Long's view that *E. mivati* Houghton isolate belongs to species *E. acervulina*

Hybridization

Setasuban, P., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (2), 190-194
Ancylostoma caninum, *A. tubaeforme*, attempted experimental cross-breeding with failure to produce progeny even though the two strains copulated, egg production observed only in identical single-strain combinations supporting assumption that the two species are genetically separate

Hybridization

Southgate, V. R.; van Wijk, H. B.; and Wright, C. A., 1976, *Ztschr. Parasitenk.*, v. 49 (2), 145-159
Schistosoma haematobium, *S. intercalatum*, incidence in children in 1972 compared with 1968, natural and experimental hybridization, increased incidence of *S. haematobium* probably resulting from introgressive hybridization following forest clearance and agricultural development which improved spread of its host snail: Loum, Cameroun

Hybridization

Triantaphyllou, A. C.; and Moncol, D. J., 1977, *J. Parasitol.*, v. 63 (6), 961-973
Strongyloides ransomi, *S. papillosus*, chromosomal complement, gametogenesis, mode of reproduction, sex determination, hybridization tests

Hybridization

Walliker, D.; and Carter, R., 1973, *J. Protozool.*, v. 20 (4), 529
Plasmodium vinckei chabaudi, demonstration of genetic recombination between two lines

Hybridization

Wright, C. A.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (5), 413-414 [Letter]
evidence of hybridization between *Schistosoma haematobium* and *S. intercalatum* with successful hybrid somewhat displacing the original *S. intercalatum*: Loum, Cameroon

Hybridization

Wright, C. A.; and Southgate, V. R., 1976, *Symposia Brit. Soc. Parasitol.*, v. 14, 55-86
hybridization of schistosomes (history, reciprocity of interspecific pairings, egg morphology of hybrids, intermediate and definitive host infectivity of hybrids, behavior of hybrid cercariae, isoenzymes of hybrids), review with results of recent work on *Schistosoma haematobium* X *S. intercalatum*, practical implications, symposium presentation

Hydrogen ion concentration

Anderson, N.; Blake, R.; and Titchen, D. A., 1976, *Parasitology*, v. 72 (1), 1-12
Ostertagia circumcincta, sheep, repeated infections, food intake, total acid output of fundic pouches, pH of abomasal contents, plasma pepsinogen levels, effects reversed by thiabendazole treatment, secretory capacity of fundic pouches tested with pharmacologic agents and feeding

Hydrogen ion concentration

- Anderson, W. I.; et al., 1977, Avian Path., v. 6 (2), 125-130
Eimeria meleagridis, *E. gallopavonis*, *E. adenoides*, turkey poults, altered intestinal pH values

Hydrogen ion concentration

- Aoki, Y., 1971, Nettai Igaku (Trop. Med.), v. 13 (4), 170-179
Wuchereria bancrofti, *Brugia pahangi*, exsheathing of microfilariae on thick blood film or on agar plate, effects of temperature, salinity, and pH

Hydrogen ion concentration

- Asanji, M. F.; and Williams, M. O., 1975, Ztschr. Parasitenk., v. 47 (2), 151-163
 trematode metacercarial excystment, enzymes, various non-enzymic media, temperature, pH, osmotic pressure, oxidation-reduction potential, ox bile as factors

Hydrogen ion concentration

- Caley, J., 1975, Ztschr. Parasitenk., v. 47 (3), 217-235
Hymenolepis nana, comparison of cysticercoids from *Tribolium confusum* and mouse villi, electron microscopy; activation and excystation effects of bile salts, other surfactants, pH, succinic and lactic acid

Hydrogen ion concentration

- Carter, R.; and Nijhout, M. M., 1977, Science (4276), v. 195, 407-409
Plasmodium gallinaceum, control of gamete formation (exflagellation) in vitro solely by change in pH in blood as it moves from environment of circulation to that of atmosphere, the pH rise being mediated by fall in carbon dioxide tension as blood equilibrates with atmosphere

Hydrogen ion concentration

- Chen, P. S., 1976, Bull. Inst. Zool., Acad. Sinica, v. 15 (1), 21-28
Reesimermis nielsenii as possible biological control agent for *Culex pipiens fatigans*: mass production; transstadial transmission; importance of water pH in limiting habitat range; field trials: Taiwan

Hydrogen ion concentration

- Davydov, O. N., 1977, Gidrobiol. Zhurnal, v. 13 (1), 115-116
Bothriocephalus gowkongensis, determination of pH of cestode and of intestine of carp host, comparison of fed and starved carp

Hydrogen ion concentration

- Dutta, G. P.; and Yadava, J. N. S., 1976, Indian J. Med. Research, v. 64 (2), 224-228
 interrelationship of pH and oxidation-reduction potential on growth of axenic *Entamoeba histolytica* and the influence of pH on amoebicidal activity of drugs

Hydrogen ion concentration

- Dvorak, J. A.; and Howe, C. L., 1977, J. Protozool., v. 24 (3), 416-419
Toxoplasma gondii in controlled-environment culture system, effect of various factors on penetration of host cells by parasites (bicarbonate ion, CO₂, pH, and host cell culture age)

Hydrogen ion concentration

- Eaton, R. D. P., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 554 [Letter]
Entamoeba histolytica, pH range for maximum growth of parasites in culture

Hydrogen ion concentration

- Gall, Z.; and Hraste, J., 1969, Medicina, Rijeka, v. 6 (2), 157-163
 survey of fauna of human oral cavity, *Entamoeba gingivalis* and *Trichomonas elongata* discovered mostly in presence of tooth decay and alkaline reactions: Rijeka, Yugoslavia

Hydrogen ion concentration

- Gzieski, J., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 127-130
Trichomonas intestinalis, hydrochloric acid and gastric juice of varying concentrations, in vitro, morphological changes and damage, effect on movements

Hydrogen ion concentration

- van der Gulden, W. J. I.; and van Aspert-van Erp, A. J. M., 1976, Exper. Parasitol., v. 39 (1), 45-50
Syphacia muris, effect of external stimuli on egg hatching (enzymes of intestinal tract, temperature, pH, pCO₂, redox potential), results indicate hatching mechanism of oxyurids identical to that of various nematodes which hatch in intestinal tract but dependent on environment to appreciably lesser extent

Hydrogen ion concentration

- Isoun, M. J.; and Isoun, T. T., 1974, Tropenmed. u. Parasitol., v. 25 (3), 283-287
Trypanosoma vivax, *T. brucei*, in vitro cultivation, improved survival and multiplication in MEM 199 medium buffered by HEPES in comparison to bicarbonate, importance of strict control of pH

Hydrogen ion concentration

- Malherbe, W. D.; et al., 1976, J. South African Vet. Med. Ass., v. 47 (1), 29-33
Babesia canis, dogs, acid-base values for blood of poor-prognosis cases, supportive treatment with sodium bicarbonate reduced acidosis: Onderstepoort

Hydrogen ion concentration

- Mason, P. R.; and Fripp, P. J., 1976, J. Parasitol., v. 62 (5), 721-727
Schistosoma mansoni, miracidial movement in relation to age, temperature, pH, light intensity, light shock, and snail-conditioned water, dark-ground photographic technique

- Hydrogen ion concentration
Mazhuga, N. A., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 98-101
Ascaris suum, proteolytic enzymes, optimal pH; action against synthetic substrate; activity distinct from that of trypsin of host
- Hydrogen ion concentration
Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 47 (1), 35-43
Fasciola hepatica, egg hatching, CO₂ concentration, pH, light and darkness, temperature
- Hydrogen ion concentration
Mitterer, K.-E., 1975, Ztschr. Parasitenk., v. 48 (1), 35-45
Dicrocoelium dendriticum miracidia, hatching with formic acid, caproic acid and intestinal juice of Helix pomatia, absence of O₂, presence of bacteria; indirect dependence on pH; permeabilities and osmotic pressure; hypothesis of hatching mechanism: granular gland activation releases enzyme, polysaccharide digested to oligosaccharide, rising osmotic pressure bursts operculum
- Hydrogen ion concentration
Mohandas, A., 1974, Proc. National Acad. Sc. India, Sect. B, v. 44 (3), 139-144
cercariae, factors influencing emergence, behavior and viability
- Hydrogen ion concentration
Motomura, I., 1967, Nettai Igaku (Trop. Med.), v. 9 (4), 201-225
Toxoplasma gondii, mice (exper.), survival comparisons of Beverley and RH strains under various physico-chemical conditions (osmotic pressure, pH, temperature, moisture, irradiation)
- Hydrogen ion concentration
Nizami, W. A.; Siddiqi, A. H.; and Yusufi, A. N. K., 1975, J. Helminth., v. 49 (4), 231-287
comparison of alkaline phosphatase systems in 8 species of digenetic trematodes from different hosts and/or habitats, enzyme activity, pH and temperature optima, effect of chemicals
- Hydrogen ion concentration
Parker, S.; and Croll, N. A., 1976, Exper. Parasitol., v. 40 (1), 80-85
Dictyocaulus viviparus, pepsin did cause exsheathment but was not an absolute requirement, exsheathment occurred in other proteases and in chitinase at appropriate pH optima, concluded that exsheathment in vivo is caused by host gut enzymes
- Hydrogen ion concentration
Parsons, C. L.; Lofland, S.; and Mulholland, S. G., 1977, J. Urol., v. 118 (4), 621-622
human vaginal Trichomonas vaginalis and its effects on vaginal pH, possible implication as cause of recurrent cystitis in women
- Hydrogen ion concentration
Podesta, R. B.; and Mettrick, D. F., 1976, Internat. J. Parasitol., v. 6 (2), 163-172
Hymenolepis diminuta, interrelationships between in situ fluxes of water, electrolytes, and glucose, hypothesis concerning function of hypertonic fluid absorption in acid-base regulation and energy metabolism
- Hydrogen ion concentration
Pryce, R. N., 1976, J. South African Vet. Ass., v. 47 (4), 289-290
canine biliary fever, method of determining plasma bicarbonate levels as measure of pH of body fluids, aid in determining metabolic normality and success of treatment
- Hydrogen ion concentration
Ramachandran, S.; Induruwa, P. A. C.; and Perera, M. V. F., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 159-160
Entamoeba histolytica in humans, acidic pH of amoebic hepatic abscess exudate, diagnostic significance
- Hydrogen ion concentration
Reichenbach-Klinke, H. H., 1975, Fisch u. Umwelt (1), 151-153
parasites of fish, control by manipulation of environmental factors (temperature, oxygen, light, pH)
- Hydrogen ion concentration
Ross, G. W.; and Knight, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 560-567
Entamoeba histolytica, dietary factors affecting pathogenicity in rats, effect of low protein and low protein-high carbohydrate diets, measurements of bacterial flora, pH, and redox potential
- Hydrogen ion concentration
Ruff, M. D.; et al., 1975, Avian Path., v. 4 (1), 73-81
Eimeria brunetti, effects on intestinal pH in conventional and gnotobiotic chickens
- Hydrogen ion concentration
Ruff, M. D.; Witlock, D. R.; and Smith, R. R., 1976, Exper. Parasitol., v. 39 (2), 244-251
comparison of effects of Eimeria tenella and E. acervulina infection on methionine absorption by avian intestine: importance of gut region infected; specific kinetic parameters affected; effect of intestinal pH; morphological changes in intestinal mucosa which might account for transport changes
- Hydrogen ion concentration
Schaffert, R.; and Strauch, D., 1976, Berl. u. Munchen. Tierarztl. Wchnschr., v. 89 (20), 399-402
Ascaris suum eggs in municipal sewage and pig slurry, rotating aeration, temperatures above 50° C necessary for egg destruction, pH not significant
- Hydrogen ion concentration
Smales, L. R.; and Sommerville, R. I., 1977, Internat. J. Parasitol., v. 7 (3), 205-209
Labiostromylus eugenii, exsheathment, important components of stimulus were pCO₂, pH, and temperature, similar to trichostromylids

- Hydrogen ion concentration
Sommerville, R. I., 1977, *J. Parasitol.*, v. 63 (2), 344-347
Haemonchus contortus, development in vitro, effect of rumen fluid and of a succession of media which incorporated changes in pH, pCO₂, and pO₂ likely to be encountered in transition from rumen to abomasum
- Hydrogen ion concentration
Soria, C. A.; and Dusanic, D. G., 1975, *J. Protozool.*, v. 22 (4), 509-513
Trypanosoma vespertilionis and T. dionisii in culture compared, population density, morphologic alterations, changes in glucose consumption and pH of media, antigenic analysis
- Hydrogen ion concentration
Thomas, R. J.; and Waller, P. J., 1975, *Vet. Rec.*, v. 97 (24), 468-471
Ostertagia circumcincta, lambs naturally infected on pasture from spring to autumn, faecal egg counts, worm counts, serum pepsinogen levels, body weights, correlations; serum pepsinogen estimations as possible diagnostic test
- Hydrogen ion concentration
Undeen, A. H., 1976, *J. Invert. Path.*, v. 27 (3), 343-347
in vivo germination of Nosema algerae in mosquitoes, role in host susceptibility (Anopheles stephensi and A. albimanus most susceptible; A. quadrimaculatus and Culex pipiens relatively unsusceptible; A. atroparvus almost completely refractory), differences in midgut pH and passage rate through midgut not accountable for differences in spore germination percentages
- Hydrogen ion concentration
Voorheis, H. P., 1977, *Biochem. J.*, v. 164 (1), 15-25
Trypanosoma brucei, changes in kinetic behaviour of threonine transport elicited by variation in hydrogen ion concentration
- Hydrogen ion concentration
Williams, S. G.; and Fanimio, O., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (3), 301-309
Plasmodium berghei, intracellular pH of rat erythrocytes parasitized with chloroquine-sensitive vs. resistant strains, no evidence to support hypothesis that intracellular pH of drug resistant strains is higher than that for sensitive strains
- Hygiene. See Sanitation.
- Hyperparasitism
Ball, I. R.; and Khan, R. A., 1976, *J. Fish. Biol.*, v. 8 (5), 419-426
hyperparasitism of Micropharynx parasitica by Steinella
- Hyperparasitism
Basch, P. F., 1971, *Nature* (5320), v. 233, 492-493
Schistosoma spindale, infection of adult worms with gram-positive cocci, highly invasive and pathogenic, likely that bacteraemia in mouse host led to infection of schistosomes
- Hyperparasitism
Basch, P. F.; and DiConza, J. J., 1975, *J. Parasitol.*, v. 61 (6), 1044-1047
predation by Echinostoma paraensei rediae upon Schistosoma mansoni mother and daughter sporocysts in vitro in absence of all host substances, cannibalism of rediae not observed
- Hyperparasitism
Beaucournu, J. C.; and Deunff, J., [1976], *Ann. Parasitol.*, v. 50 (6), 1975, 831-835
parasites of fleas, importance of immediate examination and proper preparation techniques, summary of some findings in France including parasitic castration of fleas by hyperparasites
- Hyperparasitism
Bekkouche, Z.; and Dupouy, J., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 298-299 [Abstract]
Polystoma integerrimum, bacteria in cytoplasm of somatic cells and oocysts, no cell alteration, may be considered symbiotic
- Hyperparasitism
Bird, R. G.; and McCaul, T. F., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (1), 81-93
presence of rhabdoviruses in Entamoeba histolytica and E. invadens, possible role in pathogenicity
- Hyperparasitism
Blagoveshchenskii, D. I., 1970, *Parazitologiya, Leningrad*, v. 4 (3), 265-266
Hypoderma bovis parasitized by Trichopria sp. (Hymenoptera): USSR
- Hyperparasitism
Brinck-Lindroth, G.; and Smit, F. G. A. M., 1973, *Entom. Scand.*, v. 4 (4), 302-322
Amphipsylla sibirica sibirica from small mammals, castration and intersexuality due to hyperparasitism by nematodes, morphological changes: northern Scandinavia
- Hyperparasitism
Canning, E. U.; Lai Peng Foon; and Lie Kian Joe, 1974, *J. Protozool.*, v. 21 (1), 19-25
microsporidian parasites of trematodes from aquatic snails, pathology: West Malaysia
- Hyperparasitism
Canning, E. U.; and Madhavi, R., 1977, *Parasitology*, v. 75 (3), 293-300
Unikaryon allocreadii and Nosema gigantea spp. nov. hyperparasitizing Allocreadium fasciatusi in Aplocheilus melastigma, prevalence, hatching of spores, pathogenicity, possible mode of transmission: India
- Hyperparasitism
Chang, K.-P., 1974, *J. Protozool.*, v. 21 (5), 699-707
ultrastructural evidence suggests that bipolar bodies of Crithidia oncopelti and diplosoemes of Blastocrithidia culicis are endosymbiotic bacteria with defective cell walls and that they are subject to destruction by treatment with chloramphenicol but not penicillin

- Hyperparasitism**
Ciampor, F.; and Nosek, J., 1976, *Acta Virol.*, Internat. J., English ed., v. 20 (5), 439-441
Dermacentor marginatus, presence of virus-like particles and rickettsia-like structures discovered in nymph gut cells
- Hyperparasitism**
Codreanu-Balcescu, D.; and Codreanu, R., 1976, *J. Protozool.*, v. 23 (4), 8A [Abstract]
Pleistophora hyperparasitica (hyperparasite in Enterozystis rhithrogenae), ultrastructure: Sinaia, Roumanie
- Hyperparasitism**
Colley, F. C.; Lim, H. K.; and Lie, K. J., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 142-143
Nosema eurytremae found in tissue of Bradybaena similaris (epicardium, pericardium) as well as hyperinfecting Postharmostomum galatinum, first evidence that Nosema life cycle can be completed in snail tissue
- Hyperparasitism**
Colley, F. C.; and Ow-Yang, C. K., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (2), 270-271 [Demonstration]
survey of microsporidan hyperparasites of trematode larvae from Malaysian snails, morphometric comparisons
- Hyperparasitism**
Davies, E. E.; and Howells, R. E., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 297 [Abstract]
Plasmodium berghei and associated infections in Anopheles stephensi mid-gut: rickettsial-like particles, no concomitant infection; virus-like particles within morphologically abnormal oocysts and similar particles within mid-gut epithelial cells; virus-like particles in mid-gut epithelial cells but not in oocysts
- Hyperparasitism**
Devauchelle, G.; and Vinckier, D., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 297-298 [Abstract]
Nosema vivieri in gregarines of nemerteans; bacteria in gregarines of Lithobia, earthworms and flourworms
- Hyperparasitism**
Diamond, L. S.; and Mattern, C. F. T., 1976, *Advances Virus Research*, v. 20, 87-112
protozoal viruses, review
- Hyperparasitism**
Doube, B. M.; and Heath, A. C. G., 1975, *J. Med. Entom.*, v. 12 (4), 443-447
Haemaphysalis, Ixodes, parasitization by wasp, Hunterellus sp., seasonal distribution of wasp and ticks
- Hyperparasitism**
Elsdon-Dew, R., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 265
Entamoeba histolytica, hypothesis that commensal amoebiasis becomes an invasive infection in the presence of a hyper-parasitic virus
- Hyperparasitism**
Fournier, A.; Combes, C.; and Vago, C., 1975, *Compt. Rend. Acad. Sc.*, Paris, v. 281, s. D, Sc. Nat. (23), 1895-1896
Euzetrema knoeffleri, pathogenic intracellular bacteria in tissues, present during all stages of life-cycle, transmitted by gametes
- Hyperparasitism**
Fournier, A.; Vago, C.; and Combes, C., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 298 [Abstract]
Euzetrema knoeffleri, procaryote of bacterial type in cell cytoplasm, particularly gonads, possible pathogenicity
- Hyperparasitism**
Higby, G. C.; and Canning, E. U., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 16 [Demonstration]
attempted use of Nosema eurytremae as biological control measure against larval stage of Fasciola hepatica
- Hyperparasitism**
Hominick, W. M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 383 [Demonstration]
Thelastoma sp., bacterial infection of cuticle of pinworms inhabiting hindgut of laboratory reared Periplaneta americana, bacterial preference for Thelastoma sp. over Hammerschmidtella dielsingi possibly related to structure of cuticle
- Hyperparasitism**
Krinsky, W. L.; and Burgdorfer, W., 1976, *J. Parasitol.*, v. 62 (5), 824-825
trypanosomes, similar to Trypanosoma theileri-like forms in naturally infected Amblyomma americanum and experimentally infected Ornithodoros moubata (hemolymph of both): Cherokee County, Oklahoma
- Hyperparasitism**
Kozek, W. J., 1977, *J. Parasitol.*, v. 63 (6), 992-1000
Brugia malayi, adults and all larval stages harbor intracytoplasmic bacterial organisms that appear to be transovarially transmitted and show special preference for lateral chords and for germinal tissues of females
- Hyperparasitism**
Lichtenfels, J. R.; et al., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 265-266 [Abstract]
anisakid larvae, resembles Paranisakiopsis, from commercially important shellfish, description of 4th stage, nearly 100% hyperparasitized by haplosporidan: coastal waters from New Jersey to North Carolina

Hyperparasitism

Lie, K. J.; Kwo, E. H.; and Ow-Yang, C. K., 1971, Southeast Asian J. Trop. Med. and Pub. Health, v. 2 (2), 237-243

Schistosoma spindale, studies in biological control by trematode antagonism with *Echinostoma malayanum*, P[erezia] helminthorum infection of trematode larvae leading to suppression of cercarial production and reduction in vector snail population due to parasitic castration and high mortality of infected snails

Hyperparasitism

Lim, H. K.; et al., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (1), 133 [Demonstration]

Nosema eurytremae, hyperparasite of Malaysian snails (*Indoplanorbis exustus*) also transmissible to several trematode species in *Biomphalaria glabrata* (exper.)

Hyperparasitism

Londono M., I., 1976, J. Parasitol., v. 62 (5), 786-788

Ornithodoros tartakowskyi, transmission of *Dipetalonema viteae* by small ticks feeding on engorged larger infected ticks, normal development with subsequent transmission to jirds; elimination of microfilariae in coxal fluid as a possible mechanism to prevent hyperinfection

Hyperparasitism

Mattern, C. F. T.; and Diamond, L. S., 1976, Ztschr. Parasitenk., v. 48 (3-4), 296-297 [Abstract]

Entamoeba histolytica, axenically cultivated strains, virus isolated, possibly lysogenic relationship

Hyperparasitism

Michelson, E. H., 1976, J. Parasitol., v. 62 (4), 648-649

Schistosoma mansoni, exper. infections in *Biomphalaria havanensis* (a potential intermediate host from Haiti), presence of microsporidian-like organism which attacked trematode sporocysts and snail tissue

Hyperparasitism

Michajlow, W.; and Wita, I., 1976, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (2), 113-116

Ergasilus sieboldi and its hyperparasite *Paradistigma triangulatum*, survival in water contaminated with Vapam at various concentrations

Hyperparasitism

Molyneux, D. H., 1976, Ztschr. Parasitenk., v. 48 (3-4), 296 [Abstract]

Leishmania hertigi, virus-like particles in promastigotes, brief description

Hyperparasitism

Moorhouse, D. E.; and Heath, A. C. G., 1975, J. Med. Entom., v. 12 (5), 571-572

evidence of parasitism of female ticks by males of the genus *Ixodes*, possible implications for transmission of disease agents

Hyperparasitism

Mundim, M. H.; et al., 1974, J. Protozool., v. 21 (4), 518-521

Crithidia deanei, cultivation in defined medium, unexpectedly simple nutritional requirements, bacterial endosymbiont revealed by electron microscopy may provide other essential nutrients

Hyperparasitism

Nalin, D. R.; and McLaughlin, J., 1976, J. Parasitol., v. 62 (5), 839-841

Ascaris lumbricoides adults found to be colonized by *Vibrio cholerae* when isolated from cholera patients: Bangladesh

Hyperparasitism

Overstreet, R. M., 1976, J. Parasitol., v. 62 (5), 680-684

Fabespora vermicola sp. n. hyperparasitism in *Crassicutis archosargi* acts as biological control agent by stopping reproduction of digenean host

Hyperparasitism

Overstreet, R. M., 1976, J. Parasitol., v. 62 (5), 702-708

Crassicutis archosargi, redescription, occurrence of numerous unidentified refractile bodies in tegument and other tissues, binding to host intestine by adhesive tegument, hyperparasitism by myxosporidan and *Hexamita* sp.

Hyperparasitism

Palmieri, J. R.; Cali, A.; and Heckmann, R. A., 1976, J. Parasitol., v. 62 (2), 325-326

Diplostomum spathaceum in *Lymnaea auricularia*, experimental biological control by protozoan hyperparasite (*Nosema strigeoideae*)

Hyperparasitism

Perkins, F. O.; Zwerner, D. E.; and Dias, R. K., 1975, J. Parasitol., v. 61 (5), 944-949

Urosporidium spisuli sp. n., hyperparasite of anisakids (pseudocoel) in surf clams, no potential health hazard from ingesting clams since they are temperature treated during commercial processing: vicinity Chesapeake Light, off Cape Henry, Virginia, N. Atlantic Ocean

Hyperparasitism

Poinar, G. O., jr.; and Hess, R., 1977, Nature, London (5599), v. 266, 256-257 [Letter]

Romanormis culicivora, preparasitic juveniles contained virus-like particles in hypodermal cords, damage could lower efficiency of this nematode as biological control agent

Hyperparasitism

Terzakis, J. A.; Vanderberg, J. P.; and Weiss, M. M., 1976, J. Parasitol., v. 62 (3), 366-371

ultrastructural appearance of viruslike particles in several *Plasmodium* spp. at different times in sporogony

Hyperparasitism

Vivares, C. P., 1976, Ztschr. Parasitenk., v. 48 (3-4), 298 [Abstract]

Pachyporospora retorta, nucleus containing crystalloids composed of thousands of particles, possibly of viral origin

Hyperparasitism

Young, S. W.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (6), 797-802

Schistosoma mansoni, Salmonella paratyphi A cultured from tegument of worms removed from patients with chronic salmonellosis, worms incubated with salmonella in vitro, and worms from mice previously inoculated with salmonella

Hyperparasitism

Young, S. W.; Hagashi, G.; and Kamel, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 437 [Demonstration]

Schistosoma mansoni from 2 patients with chronic salmonellosis, tegumental colonization of schistosomes by Salmonella paratyphi A

Hyperparasitism

Zierdt, C. H.; and Tan, H., 1976, Exper. Parasitol., v. 39 (3), 422-430

Blastocystis hominis, 8 axenically grown strains, presence of intracellular bacteria-like spheres and rods, direct relationship between increasing endosymbiont numbers and increasing B. hominis cell size, effect of 3 antibiotics on B. hominis and its endosymbiont

Hypersensitivity, Delayed. See Immunity, Cell-mediated.

Hypersensitivity, Immediate. See Immunity, Allergy.

Hypobiosis. See Development.

Iakutskaja ASSR. See Russia, Yakutsk ASSR.

Idaho. See United States, Idaho.

Identification. See Diagnosis.

Illumination. See Light.

Immobilization test. See Immunity, Immobilization.

Immunity. [See also Interferon; Mast cells; Proteins, Blood; Resistance, Host]

Immunity

Aalberse, R. C.; Brummelhuis, H. G. J.; and Reerink-Brongers, E. E., 1973, *Immunochemistry*, v. 10 (5), 295-303

plasma from patients with *Schistosoma mansoni* and tropical eosinophilia probably due to a microfilaria infection, purification of polyclonal IgE by immunosorption

Immunity

Abdalla, R. E.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 549-559
cutaneous leishmaniasis, human, epidemiology, clinical features, pathology, immunology, treatment with sodium stibogluconate; leishmanin skin test survey of 560 individuals: Sudan

Immunity

Abdalla, R. E.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 443-449
human mucosal leishmaniasis, possibly *Leishmania donovani*, distribution, clinical features, pathology, immunology, sodium stibogluconate: Sudan

Immunity

Abd El-Fattah, M. M., 1973, *Med. J. Cairo Univ.*, v. 41 (4), 331-338
effect of protein level in diet and host age on antibody production, *Schistosoma mansoni*-infected mice

Immunity

Abrahamsohn, I. A.; and da Silva, W. D., 1977, *Parasitology*, v. 75 (3), 317-323
Trypanosoma cruzi, antibody-dependent cell-mediated cytotoxicity against epimastigotes by normal mouse splenic lymphocytes

Immunity

Abu Ali, N.; et al., 1976, *Vet. Parasitol.*, v. 1 (4), 309-316
Eimeria tenella, chickens inoculated orally vs. subcutaneously, comparison of circulating antibody response using fluorescent antibody titration

Immunity

Ackerman, S. B.; and Page, C. R., III, 1976, *J. Parasitol.*, v. 62 (1), 157-159
Schistosomiasis mansoni and *japonicum* in intact and splenectomized *Microtus montanus* compared with mice (all exper.), susceptibility, worm burdens, splenic involvement, vole as suitable host for investigating immune response to human schistosomes and exper. model for concomitant infections of schistosomes and plasmodia or trypanosomes

Immunity

Adams, A. C.; John, D. T.; and Bradley, S. G., 1976, *Infect. and Immun.*, v. 13 (5), 1387-1391
Naegleria fowleri, mice (exper.), course of disease dependent upon infecting dose, no significant modification of resistance by bacterial endotoxin or other test substances, high resistance to challenge in mice that survived primary infection

Immunity

Adams, D. B.; and Cripps, A. W., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (5), 509-522

Trichostrongylus colubriformis-infected sheep, cellular changes in intestinal lymph, diminished traffic of lymphocytes in intestinal lymph and reduced numbers of mitogen and nematode antigen-reactive lymphocytes in both blood and intestinal lymph during early stages of infection are closely related to slow development of protective immunity

Immunity

Ahluwalia, S. S., 1972, *Indian J. Animal Sc.*, v. 42 (11), 962-964
Schistosoma incognitum, *Macaca mulatta* (exper.), infection tolerated for 3-4 weeks with sudden termination without becoming patent, subsequent resistance to challenge infection, negative Cercarien-Hullen reaction and intradermal test

Immunity

Aitken, M. M.; et al., 1976, *Brit. Vet. J.*, v. 132 (1), 119-120
Fasciola hepatica, cattle (exper.), increased susceptibility to *Salmonella dublin*

Immunity

Al-Baldawi, F. A. K.; et al., 1976, *Parasitology*, v. 73 (2), xviii [Abstract]
Litomosoides carinii in protein-deficient cotton rats, immune response assessed by measuring IgG, IgM, and anaphylactic antibody level

Immunity

Alexander, J.; and Phillips, R. S., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 273 [Demonstration]
Trypanosoma brucei in mice suppresses growth of cutaneous nodules caused by *Leishmania* spp., subcurative treatment of *T. brucei* with Berenil allowed nodule to recommence growth but when trypanosome infection relapsed the lesion again stopped growing, possible mechanism, no evidence of cross-immunity

Immunity

Alexander, J.; and Phillips, R. S., 1975, *J. Protozool.*, v. 22 (3), 48A [Abstract]
Leishmania mexicana, immunity in mice, cross-protection between *L. tropica major* and *L. mexicana*

Immunity

Alger, N. E.; and Harant, J., 1976, *Exper. Parasitol.*, v. 40 (2), 269-272
Plasmodium berghei, mice immunized by repeated ip injections of normal mosquito salivary glands or heads were protected from ip sporozoite challenge but not from iv sporozoite challenge, suggested that hypersensitive Type 1 reaction may explain part of this protection

Immunity

Alger, N. E.; and Harant, J. 1976, *Exper. Parasitol.*, v. 40 (2), 273-280
Plasmodium berghei, mice, concluded that hypersensitivity may possibly be at least partly responsible for protection by injections of 70 mosquito salivary glands but that sporozoite immunity is not primarily due to hypersensitivity

Immunity

Allison, A. C.; and Clark, I. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 216-222

specific and non-specific immunity to haemoprotozoa with emphasis on malaria and *Babesia* infections, workshop report: inherited differences in erythrocytes which influence susceptibility; specific responses of B- and T-lymphocytes to parasite antigens; macrophage activation

Immunity

Allonby, E. W.; and Urquhart, G. M., 1975, *Vet. Parasitol.*, v. 1 (2), 129-143
Haemonchus contortus, Merino ewes and their lambs, epidemiology and pathogenic significance, faecal egg counts, worm burdens, haematological indices, clinical signs, levels of infective larvae on pasture, classical acute haemonchosis occurred during high rainfall periods, self-cure confirmed as flock phenomenon, importance of moderate infections: Naivasha, Kenya

Immunity

Am. *J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 249 pp, illus.
 Immunology of Parasitic Infections: Report of a Workshop (Bethesda, Maryland, June 1-3, 1977)

Immunity

Amborski, G. F.; Bello, T. R.; and Torbert, B. J., 1974, *Am. J. Vet. Research*, v. 35 (9), 1181-1188
Strongylus vulgaris, more adverse host reaction in parasite-free ponies than in ponies sensitized by previous natural infection, changes in serum glycoprotein patterns may be related to arterial damage associated with larval migrations

Immunity

Ambroise-Thomas, P.; et al., 1976, *Bull. World Health Organ.*, v. 54 (4), 355-367
 human malaria, extensive sero-epidemiologic survey (6 surveys at 6-month intervals using peripheral blood examination and fluorescent antibody technique) to evaluate past and present status of malarial infection in Tunisia

Immunity

Ambroise-Thomas, P.; and Andrews, P., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 483-488
Schistosoma mansoni, mice, development of fluorescent antibodies directed against larval stages, eggs, and adults, stronger serologic reaction in bisexual vs. unisexual infections, anti-male antibodies present in higher concentration than anti-female antibodies

Immunity

Andersen, K., 1976, *Fauna, Oslo*, v. 29 (1), 1-20
 helminth adaptation to life in vertebrate intestine, cysts, attachment organs, structure of tegument, immune response, site selection, evolution, extensive review

Immunity

Anderson, J.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 209-222
Onchocerca volvulus, survey of total populations aged 5 years and older in 16 villages of rain-forest and savanna zones, standard techniques used to assess intensity of infection, clinical manifestations; differences thought to be influenced by hormonal factors, strain pathogenicity, transmission patterns: United Cameroon Republic

Immunity

Anderson, R.; et al., 1976, *J. Immunol.*, v. 117 (2), 428-432
 levamisole stimulating neutrophil motility in vitro, maintenance of cGMP levels in chemotactically stimulated levamisole-treated neutrophils

Immunity

Anderson, S. E., jr.; Bautista, S. C.; and Remington, J. S., 1976, *Clin. and Exper. Immunol.*, v. 26 (3), 375-380
 specific antibody-dependent killing of *Toxoplasma gondii* by normal macrophages

Immunity

Anderson, W. I.; et al., 1977, *Avian Dis.*, v. 21 (4), 637-641
Eimeria tenella, development of immunity in chicks experimentally infected with infectious bursal disease virus at various times before and during coccidial challenge, results indicate that viral infection prior to or concurrent with *Eimeria tenella* immunization significantly reduced immune protection

Immunity

- Arambulo, P. V. III; Cabrera, B. D.; and Alge, M. H., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (1), 9-11
Toxoplasma gondii, serologic survey of market-age pigs for evidence of toxoplasmosis using the indirect hemagglutination test: Philippine Islands

Immunity

- Araujo, F. G.; and Nascimento, E., 1977, J. Parasitol., v. 63 (6), 1120-1121
parasitemia by Trypanosoma cruzi lower in mice chronically infected with Toxoplasma gondii than in controls, mortality rate similar

Immunity

- Araujo, F. G.; and Remington, J. S., 1975, J. Immunol., v. 115 (2), 335-338
Toxoplasma gondii, newborn rabbits, passively administered IgG significantly suppresses IgM antibody response, results may explain absence of IgM antibody response in congenitally infected human infants by suppressive effect of maternally-transmitted IgG

Immunity

- Armour, J.; and Dargie, J. D., 1973, Ann. Fac. Med. Vet. Torino, v. 20, Suppl., 135-147
Fasciola hepatica, natural and acquired immunity, both humoral and cellular immunity involved in development of acquired resistance in cattle, sheep and rats, review

Immunity

- Arthur, D. R., 1973, J. Wildlife Dis., v. 9 (1), 74-84
tick-host-disease relationships, review

Immunity

- Aryeetey, M. E.; and Piekarski, G., 1976, Ztschr. Parasitenk., v. 50 (2), 109-124
Sarcocystis fusiformis, humans, immunity manifested in reaction to indirect immunofluorescence test but not in reduced level of fecal sporocysts after reinfection; rats fed sausage infected with S. fusiformis or S. tenella showed negative reaction to Sarcocystis antigen

Immunity

- Bachmann, A. W.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (3), 361-366
Babesia argentina, experimental infection in Droughtmaster cattle which are somewhat resistant to babesiosis, no apparent correlation between hemoglobin types and resistance to infection

Immunity

- Bailenger, J.; and Cabannes, A., 1976, Ann. Parasitol., v. 51 (5), 563-576
Strongyloides ratti, lactating rats, inhibition of self-cure, decrease in intensity of parasitemia, plasma corticosteroid levels

Immunity

- Bailenger, J.; and Faraggi, G., 1975, Ann. Parasitol., v. 50 (2), 199-208
Strongyloides ratti, rats (exper.), reserpine treatment inhibits self-cure reaction and causes hypercorticosteronemia, implications for role of hypocorticosteronemia normally associated with this parasite

Immunity

- Baker, J. R.; and Green, S. M., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 265-266 [Abstract]
failure to demonstrate specific lymphocyte-mediated cytotoxicity to Trypanosoma dionisii-infected macrophage cultures

Immunity

- Baker, J. R.; and Taylor, A. E. R., 1971, Ann. Trop. Med. and Parasitol., v. 65 (4), 471-485
Trypanosoma brucei brucei- and T. brucei rhodesiense-infected Pan troglodytes (exper.), course of infection, serologic relationships between trypanosome species and strains, blood changes, cerebrospinal fluid changes, post-mortem observations

Immunity

- Balamuth, W.; and Siddiqui, W. A., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 439-468
Entamoeba histolytica, Balantidium coli, human, immunology, review

Immunity

- Baldo, B. A.; and Fletcher, T. C., 1973, Nature (5429), v. 246, 145-146
evidence of C-reactive protein-like precipitins in Pleuronectes platessa serum, reaction with Ascaris lumbricoides extract, possibility that these non-antibody precipitins form part of the fishes' humoral defenses against invasion by parasites

Immunity

- Bannister, L. H., 1977, Symposia Brit. Soc Parasitol., v. 15, 27-55
Plasmodium, invasion of red cells, symposium presentation: process of invasion (structure and formation of merozoites; release of merozoites from schizont; extracellular transit; adhesion to new host cell; invasion (theories of red cell deformation, removal of cell coat, passage of merozoite into parasitophorous vacuole, comparison with invasion in other genera of coccidians, recognition of red cell by merozoites); transformation of merozoites into trophic parasite); immunological aspects of invasion

Immunity

- Barbotin, M.; and Oudart, J. L., 1972, Nouv. Presse Med., v. 1 (17), 1162 [Letter]
possible correlations between human intestinal helminthiasis in the presence of hyper-eosinophilia and the presence of Australia antigen

Immunity

Barbotin, M.; Oudart, J. L.; and Marty, M., 1972, *Nouv. Presse Med.*, v. 1 (36), 2392-2394
frequency of occurrence of Australia antigen in hospitalized Africans, correlations with frequency of intestinal helminthiasis where skin was the portal of entry

Immunity

Barker, L. R., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 586-590
Plasmodium berghei yoelii, mice, primary infection, antibody synthesis and protection persisted at least 17 months, cross-protection against virulent isolate of parent strain but not against *P. berghei berghei*, not possible to detect persisting antigen or persisting infectious organisms in immune mice

Immunity

Barnwell, J. W.; and Desowitz, R. S., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (4), 429-433
Plasmodium berghei, mice (exper.), identification of indicators of impending parasitic crisis (penultimate stage)

Immunity

Baron, J.; et al., 1969, *Pediatrics, Am. Acad. Pediat.*, v. 44 (6), 932-939
Toxoplasma gondii, survey of microcephalic, mentally retarded and normocephalic children for evidence of *Toxoplasma* antibodies, no correlation between abnormality and serologic findings

Immunity

Baron, R. W.; and Tanner, C. E., 1977, *Internat. J. Parasitol.*, v. 7 (6), 489-495
Echinococcus multilocularis, protoscolicidal activity of infected mouse peritoneal cells, effector cell is activated macrophage, preincubation of protoscolices in immune serum increases their susceptibility, macrophages activated nonspecifically by BCG or *Taenia crassiceps* also exhibit protoscolicidal activity in vitro

Immunity

Barr, A. R., 1975, *Invert. Immun. (Maramorosch and Shope)*, 129-135
evidence for genetic control of invertebrate immunity and its possible field significance, review

Immunity

Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 601-614
Metastrongylus spp., pigs, immediate hypersensitivity, production and partial characterization of homocytotropic antibody, passive transfer of skin sensitivity to uninfected recipients, homocytotropic activity closely associated with but does not parallel distribution of IgA and may be mediated by another immunoglobulin

Immunity

Barriga, O. O., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 42-52
parasitic diseases, molecular basis of immunodiagnostic tests, review

Immunity

Barrowman, P. R., 1976, *Onderstepoort J. Vet. Research*, v. 43 (2), 55-65
Trypanosoma equiperdum in naturally infected horses, transmission studies, clinical symptoms and lesions, localization of parasite, host immune response, methods for parasite detection, varying results of chemotherapy with MSbE; attempts to infect rats, rabbits, and a dog were unsuccessful: South Africa

Immunity

Barry, J. D.; and Vickerman, K., 1977, *Parasitology*, v. 75 (2), xxx [Abstract]
Trypanosoma brucei, effects of antibodies on surface, "capping"

Immunity

Barry, J. D.; and Vickerman, K., 1977, *J. Protozool.*, v. 24 (4), 42A [Abstract]
Trypanosoma brucei, short stumpy forms (SSF) of a particular parasitaemic peak are of same variable antigen type as their long slender predecessors, SSF appear more resistant to host antibodies possibly as a result of binding host serum components

Immunity

Basch, P. F., 1976, *Exper. Parasitol.*, v. 39 (1), 150-169
Schistosoma mansoni, intermediate host specificity (*Biomphalaria*), extensive review

Immunity

Beauvais, B.; et al., 1976, *N. Rev. Franc. Hematol.*, v. 16 (2), 169-184
high serologic titers to toxoplasmosis frequently greater among persons suffering from chronic myeloid leukemia than other persons, therefore leucocyte transfusions from one leukemic to another may be source of infection, pre-transfusion study advised; case report of post-transfusional toxoplasmosis: France

Immunity

Bedrnik, P., 1975, *J. Protozool.*, v. 22 (3), 58A [Abstract]
Eimeria tenella, successful propagation in tissue cultures derived from immune chickens suggests predominant role of circulating antibodies in immunity against coccidia

Immunity

Bedrnik, P., 1977, *J. Protozool.*, v. 24 (2), Suppl., 12A-13A [Abstract]
Eimeria tenella, failure to transfer immunity with immune spleen lymphocytes in vitro or in vivo (chicks)

Immunity

Befus, A. D., 1977, *Exper. Parasitol.*, v. 41 (1), 242-251
Hymenolepis diminuta, *H. microstoma*-infected mice, distribution and abundance of immunoglobulins in intestinal wall and lumen, immunoglobulin binding to worm tegumental surfaces

Immunity

Behnke, J. M., 1976, *J. Helminth.*, v. 50 (3), 197-202

Aspiculuris tetraptera in wild *Mus musculus* of different ages, prevalence and level of infection decreased in older animals, either innate or acquired resistance could account for observations

Immunity

Behnke, J. M., 1977, *Parasitology*, v. 75 (2), xv [Abstract]

Nematospiroides dubius, inhibition of larval development in immune mice, transfer of immunity by immune serum and syngeneic mesenteric lymph node cells

Immunity

Behnke, J. M.; et al., 1976, *Parasitology*, v. 73 (2), xv [Abstract]

Trichinella spiralis expulsion from mice, effect on concurrent helminth infections (*Hymenolepis diminuta*, *H. microstoma*, *Aspiculuris tetraptera*)

Immunity

Behnke, J. M.; Bland, P. W.; and Wakelin, D., 1977, *Parasitology*, v. 75 (1), 79-88

rejection phase of *Trichinella spiralis* infection in mice had marked negative effect on growth and survival of *Hymenolepis diminuta*, this effect was not mediated by direct cross-immunity nor was it a direct consequence of inter-specific competition

Immunity

Behnke, J. M.; and Wakelin, D., 1977, *J. Helminthol.*, v. 51 (3), 167-175

Nematospiroides dubius, stimulation of acquired immunity in inbred strains of mice

Immunity

Belehu, A.; Poulter, L. W.; and Turk, J. L., 1976, *Clin. and Exper. Immunol.*, v. 24 (1), 125-132

Leishmania enriettii, guinea pigs, pretreatment with cyclophosphamide, increased intensity of initial lesion and increased incidence of widespread metastases, decreased levels of circulating antibody, possible differential roles of cell-mediated immunity and humoral antibody in cutaneous leishmaniasis

Immunity

Benjamini, E.; and Feingold, B. F., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 1061-1134

immunity to arthropods, review

Immunity

Bennett, J. L.; and Seed, J. L., 1977, *J. Parasitol.*, v. 63 (2), 250-258

Schistosoma mansoni, epidermis of adult male worms, characterization and isolation of concanavalin A binding sites, appear to be 2 or 3 high molecular weight glycoproteins. discussion of possible immunological significance

Immunity

Beresky, M. A.; and Hall, D. W., 1977, *J. Invert. Path.*, v. 29 (1), 74-80

Neoaeplectana carpocapsae-infected *Aedes aegypti* larvae, phenylthiourea treatment reduced nematode encapsulation and melanization and mosquito mortality, possible explanations

Immunity

Berezantsev, Iu. A.; and Oparin, E. N., 1976, *Dokl. Akad. Nauk SSSR*, v. 226 (5), 1236-1239

Schistocephalus solidus, *Diphyllobothrium latum*, *Hydatigera taeniaeformis*, inhibition of leucocyte chemotaxis by parasite exometabolites, these exometabolites (telergones) are thermostable, non-protein in nature, dialyzable, and are not volatile fatty acids

Immunity

Beverley, J. K. A.; et al., 1977, *Research Vet. Sc.*, v. 23 (1), 33-37

Toxoplasma gondii, low-virulence strain in calves (exper.), circulating antibody response, organism only recovered from lymph nodes and this only during first four weeks, no tissue cysts demonstrated and only few inflammatory lesions occurred

Immunity

Bezjak, B., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (6, pt. 1), 945-948

Strongyloides stercoralis, determination of immunoglobulins in duodenal contents and feces of infected humans, elevation of serum IgE levels

Immunity

Bhopale, M. K.; and Johri, G. N., 1976, *J. Hyg., Epidemiol., Microbiol. and Immunol.*, v. 20 (4), 464-470

Ancylostoma caninum, Swiss albino mice (exper.), analysis of serum protein components in the presence of infection, significant decrease in albumin and gamma globulin with increase in beta globulin, most significant changes occurred on the 9th day after infection

Immunity

Bigalke, R. D., 1976, *J. South African Vet. Ass.*, v. 47 (4), 281-282

Babesia canis, canine, relapses due to failure of immune mechanism, not to inadequate therapy, brief theoretical review

Immunity

Biroum-Noerjasin, 1973, *Clin. and Exper. Immunol.*, v. 13 (4), 545-551

hookworm, human, IgE levels in relation to anti-helminthic treatment, to numbers of eggs/g of stool, to states of infestation (with and without reinfestation, with and without superinfestation), and to time post-treatment, changes in differential lymphocyte and eosinophil counts: East Java, Indonesia

Immunity

- Bland, P. W., 1976, *Parasitology*, v. 72 (1), 93-97
Hymenolepis diminuta, retention of infection in congenitally athymic nude mice, evidence that immune rejection from normal mice is thymus-dependent

Immunity

- Bloch, K. J.; Towle, C.; and Mills, J. A., 1977, *Cellular Immunol.*, v. 28 (1), 181-189
Nippostrongylus brasiliensis, rats, mesenteric lymph node and spleen cells, stimulation by worm metabolic antigen and by con A of tritiated thymidine incorporation

Immunity

- Boese, J. L., 1974, *J. Med. Entom.*, v. 11 (5), 503-512
Haemaphysalis leporispalustris, rabbits (exper.), progressive development of host resistance with repeated nymphal infestations depends on frequency rather than intensity of infestations, homocytotropic antibody found in sera of immune rabbits

Immunity

- Bogucki, M. S.; and Seed, J. R., 1976, *J. Protozool.*, v. 23 (2), 17A [Abstract]
Trypanosoma brucei gambiense, host antigens obtained from extracts of well-washed rat-harvested parasites identified as immunoglobulins

Immunity

- Borojevic, D.; and Movsesijan, M., 1973, *Acta Parasitol. Iugoslavica*, v. 4 (1), 51-56
Fasciola hepatica, morphogenesis in rabbits, 42 days post infection, genital organs not sufficiently developed to produce secretions for antigenic stimulation of host, but secretory caecal epithelium of digestive organs develops earlier, provides antigenic material during migratory and biliary system periods

Immunity

- Boron-Kaczmarska, A.; et al., 1977, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 239 (3), 414-418
Taenia saginata, patients before and after Yomesan treatment, serum levels of IgG, IgA, and IgM, blastic lymphocyte transformation following phytohaemagglutinin stimulation

Immunity

- Boros, D. L.; Pelley, R. P.; and Warren, K. S., 1975, *J. Immunol.*, v. 114 (5), 1437-1441
Schistosoma mansoni, mice, spontaneous modulation of granulomatous hypersensitivity, concomitant rise in circulating antibody levels and fall in spleen cell responsiveness to antigen

Immunity

- Boros, D. L.; and Warren, K. S., 1973, *Immunology*, v. 24 (3), 511-529
Schistosoma mansoni, model for study of granulomatous inflammation employing bentonite particles coated with soluble antigens and injected i.v. into micro-vasculature of sensitized mice

Immunity

- Bourns, T. K. R.; and Ellis, J. C., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 382-387
Trichobilharzia ocellata in ducklings (exper.), attempted transfer of immunity using lymphoid cells and/or immune serum, results showed some shorter than normal worms or lower numbers of worm eggs passed with birds receiving large volumes of immune serum

Immunity

- Bout, D.; et al., 1977, *Ann. Immunol.*, v. 128C (4-5), 811-816
Schistosoma mansoni, mice, high resistance induced by intravenous inoculation of young live BCG 14 days before challenge

Immunity

- Bout, D.; et al., 1977, *IRCS J. Med. Sc.*, v. 5 (1), 47
Schistosoma mansoni, inoculation of mice (exper.) with *Bacillus Calmette Guerin* (BCG) enhanced resistance of mice to parasitic infection

Immunity

- Boyer, M. H.; Kalfayan, L. J.; and Ketchum, D. G., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (2), 254-257
Schistosoma mansoni, host antigen phenomenon in experimental infections, destruction of parasites transferred from mice to hamsters correlated with evidence of presence of mouse antigenic determinants on surfaces of schistosomes from donor mice

Immunity

- Boyer, M. H.; and Ketchum, D. G., 1976, *J. Immunol.*, v. 116 (4), 1093-1095
Schistosoma mansoni, adults grown in hamsters and transferred directly to mesenteric vessels of C57BL10J mice immunized with hamster cells, normal survival despite evidence of cytotoxic and hemagglutinating antibodies directed against hamster cells

Immunity

- Boyer, M. H.; Ketchum, D. G.; and Palmer, P. D., 1976, *Internat. J. Parasitol.*, v. 6 (3), 235-238
Schistosoma mansoni, surgical technique for transfer of 3-week-old worms to mesenteric veins of mice, parasites grown in donor C3H/StCrl strain survive on transfer to recipient C57BL/10J mice despite prior immunization with C3H/StCrl cells or skin grafts

Immunity

- Bradley, D. J.; and McCullough, F. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 491-500
Schistosoma haematobium, human, epidemiological model shows good agreement with actual community egg output patterns, provides additional evidence for occurrence of concomitant immunity

Immunity

Bradley, R. H.; and Burghardt, R. C., 1976, Proc. 34. Ann. Meet. Electron Microsc. Soc. America (Miami Beach, Florida, Aug. 9-13), 158-159

Ascaris spermatozoa, immunocytochemistry of surface changes during maturation, specific antigenic differences between inactive and active, mature cells, studies by unlabeled antibody enzyme method; possible relationship to sperm's ability to recognize and/or penetrate oolemma of oocyte

Immunity

Bray, R. S.; and Harris, W. G., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 401-407
Entamoeba histolytica, extensive epidemiologic survey of selected native villages revealed a comparatively high incidence of human infection: The Gambia, West Africa

Immunity

Brener, Z.; and Cardoso, J. E., 1976, J. Parasitol., v. 62 (4), 645-646
Corynebacterium parvum-immunized mice, enhanced nonspecific resistance against *Trypanosoma cruzi*

Immunity

Brener, Z.; and Chiari, E., 1971, Tr. Roy. Soc. Trop. Med. and Hyg., v. 65 (5), 629-636
Trypanosoma cruzi strains in mice (exper.), effect of immunosuppressive agents (gamma radiation, cyclophosphamide, imuran, and 6-mercaptopurine) administered during the course of chronic infection

Immunity

Brink, L. H.; McLaren, D. J.; and Smithers, S. R., 1977, Parasitology, v. 74 (1), 73-86
Schistosoma mansoni, artificially transformed schistosomula and schistosomula recovered after cercarial penetration of isolated skin, comparison of ultrastructure, development, antigenic nature, viability in vivo and in vitro, infectivity

Immunity

Brocklesby, D. W.; and Purnell, R. E., 1977, Nature, London (5592), v. 265, 343
Babesia divergens, calves, failure of BCG to protect against infection

Immunity

Brooks, B. O.; and Reed, N. D., 1977, J. Reticuloendothel. Soc., v. 22 (6), 605-608
Trypanosoma musculi, thymus dependency of elimination from mice

Immunity

Brossard, M., 1976, Rev. Suisse Zool., v. 83 (2), 443-462
Ixodes ricinus, role as vector of *Babesia bovis* of cattle, distribution, cattle have antibody against *I. ricinus* saliva, exper. vector of *B. berbera* and *B. argentina*: Low Plain of the Rhone, Switzerland

Immunity

Brown, A. R.; and Crandall, C. A., 1976, J. Immunol., v. 116 (4), 1105-1109
 mice, *Ascaris* suum-induced phosphorylcholine-binding component identified as IgM antibody having idiotypic determinants in common with PC-binding IgA myeloma TEPC 15, response not duplicated by immunization with dead *Ascaris* larvae or by infection with *Heligmosomoides polygyrus* or *Trichinella spiralis*

Immunity

Brown, A. R.; Crandall, C. A.; and Crandall, R. B., 1977, J. Parasitol., v. 63 (5), 950-952
Ascaris suum in mice with X-linked B lymphocyte defect, immune response and acquired resistance

Immunity

Brown, A. R.; Crandall, R. B.; and Crandall, C. A., 1976, J. Parasitol., v. 62 (1), 169-171
Heligmosomoides polygyrus-infected mice, increased IgG catabolism as possible factor in observed suppression of circulating antibody levels following immunization to sheep erythrocytes

Immunity

Brown, I. N.; Watson, S. R.; and Sljivic, V. S., 1977, Infect. and Immun., v. 16 (2), 456-460

antibody response in vitro of spleen cells from *Plasmodium yoelii*-infected mice, response to sheep erythrocytes enhanced at early stage of infection and depressed at later intervals, cell fractionation experiments indicated a defect of macrophage function, response to dinitrophenylated Ficoll remained normal

Immunity

Brown, K. N., 1977, Advances Exper. Med. and Biol., v. 93, 5-25
 antigenic variation in malaria, review: *Plasmodium knowlesi*, schizont-infected cell agglutination test, protective variant-specific antibodies, induction of antigenic variation, antigenic variation and the cell cycle, antigenic variation and red cell penetration, variant-specific antibody synthesis and protective immunity; *Plasmodium berghei*, lymphocyte subpopulations and immunity transcending antigenic variation; gametocytes, antigenic variation, and protection; antigenic variation and immunization against malaria

Immunity

Brown, K. N.; and Hills, L. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 139-142
Plasmodium knowlesi, variant-specific antibodies detected in exper. *Macaca mulatta*, one inducing antigenic variation and one with parasitocidal response

Immunity

Brown, K. N.; Jarra, W.; and Hills, L. A., 1976, Infect. and Immun., v. 14 (4), 858-871
Plasmodium berghei, rats, development of protective T cell activity

Immunity

Brown, L. A.; and Losos, G. J., 1977, Research Vet. Sc., v. 23 (2), 196-203

Trypanosoma congolense and *T. brucei*, comparative pathology in both bled and non-bled albino rats (exper.): parasitemia, packed cell volumes, weight of spleen and lymph, histology of thymus, spleen, lymph nodes, and bone marrow

Immunity

Bryceson, A. D. M., 1975, Symposia Brit. Soc. Parasitol., v. 13, 85-100

mechanisms of disease in leishmaniasis, extensive review with some previously unpublished results: host-parasite specificity; prevention or evasion of immune response; role of immune response in production of disease; healing; immunity to reinfection

Immunity

Bryceson, A. D. M.; Bray, R. S.; and Dumonde, D. C., 1974, Clin. and Exper. Immunol., v. 16 (2), 189-201

Leishmania enriettii, guinea pigs inoculated with graded doses, relationship between clinical course of infection and immunological response, selective suppression of cell-mediated immunity, extent of delayed hypersensitivity closely related to degree of host resistance, role of humoral antibody less clear

Immunity

Brzosko, W. J.; et al., 1976, National Cancer Inst. Monograph (43), 163-169

Pneumocystis carinii, infants, immunofluorescence and immunoelectron microscopic study of tissue, antibodies are essential in elimination of *P. carinii* through their opsonization of the organisms, disintegration of *P. carinii* conglomerates subsequent to binding of complement to immune complexes preceded their phagocytosis, replication of *P. carinii* at rate leading to clinical symptoms is due to impaired and delayed synthesis both of specific antibodies and of complement

Immunity

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 21-31

serum immunoglobulin levels in five villages compared, comparative studies of IgG, IgA, IgM, and IgD levels between *Onchocerca volvulus* patients with and without microfilaruria, different age and sex patterns, effect of infection intensity, IgE and combined infection with *Schistosoma mansoni*: Chad

Immunity

Budden, J. R.; and Dimopoulos, G. T., 1977, Am. J. Vet. Research, v. 38 (5), 633-636

Anaplasma marginale, finite purification, antibody in anaplasmosis detected by agglutination tests is directed against erythrocytic stromata, not against finitely purified anaplasma bodies

Immunity

Buendia, E.; et al., 1974, Nouv. Presse Med., v. 3 (36), 2334 [Letter]

human trichinosis, alterations of blood proteins in presence of infections

Immunity

Buengener, W., 1975, Tropenmed. u. Parasitol., v. 26 (3), 281-284

Trypanosoma musculi in inbred mice (exper.), parasite multiplication and course of infection in single infection, after pre-infection with *T. congolense*, or with added infection of *T. brucei*

Immunity

Buening, G. M., 1977, Am. J. Vet. Research, v. 38 (1), 137-138

Anaplasma, 2-mercaptoethanol enhances in vitro response of sensitized bovine peripheral blood lymphocytes to *Anaplasma* antigen

Immunity

Buerger, H. J., 1976, Zentralbl. Vet.-Med., Reihe B, v. 23 (8), 678-697

Trichinella spiralis, rats, mechanism of immune elimination, dose of infection and sex of rats affected time of onset of worm expulsion; number of female trichinellae decreased earlier than number of male worms

Immunity

Bundesen, P. G.; and Dobson, C., 1977, Canad. Fed. Biol. Soc., Programme and Proc. 20. Ann. Meet., v. 20, 117 [Abstract]

Taenia pisiformis, kinetics of antibody response in rabbits

Immunity

Burke, B. A., 1976, National Cancer Inst. Monograph (43), 151-156

Pneumocystis carinii infection in humans, methods of diagnosis particularly in immunodeficient patient, classic morphology of organism, review

Immunity

Burke, B. A.; and Good, R. A., 1973, Medicine, Baltimore, v. 52 (1), 23-51

review of case histories and pathologic findings in 46 patients with *Pneumocystis carinii* infections, comparison of mode of clinical onset, methods of diagnosis, response to therapy and known immunologic features, extensive literature review, morphologic description of organism

Immunity

Bussieras, J., 1976, Rec. Med. Vet., v. 152 (3), 219-222

strongyloses of swine, immunological phenomena, clinical manifestations, applications in diagnosis, prophylaxis and treatment, review

Immunity

Butcher, G. A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 554-555 [Letter]

Plasmodium knowlesi, unsuccessful attempt to demonstrate stimulus that induces synthesis of new antigens by parasite in response to a development of immunity by host

Immunity

Butcher, G. A.; Bannister, L. H.; and Mitchell, G. H., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 11 [Demonstration]

Plasmodium knowlesi, immune damage to intracellular parasites, morphologic features

Immunity

Butterworth, A. E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), Nov., 29-38
effector mechanisms against schistosomes in vitro with emphasis on eosinophils as important component in immunity, workshop report

Immunity

Butterworth, A. E.; et al., 1976, Clin. and Exper. Immunol., v. 25 (1), 95-102
Schistosoma mansoni, technique for estimating antibody-dependent cell-mediated damage to schistosomula by measuring release of ^{51}Cr from labelled organisms, time course of development of cell-dependent cytotoxic activity in sera of infected baboons

Immunity

Butterworth, A. E.; et al., 1977, J. Exper. Med., v. 145 (1), 136-150
Schistosoma mansoni, eosinophil as effector cell in antibody-dependent cell-mediated damage to schistosomula: cytotoxic activity of eosinophil-enriched preparations; lack of cytotoxicity by preparations depleted of eosinophils; greater cytotoxicity mediated by cells from normal vs. eosinophilic subjects; damage not enhanced by lymphocytes, neutrophils, or monocytes

Immunity

Butterworth, A. E.; et al., 1977, J. Immunol., v. 118 (6), 2230-2236
Schistosoma mansoni, antibody-dependent eosinophil-mediated damage to schistosomula, mediation by IgG and inhibition by antigen-antibody complexes

Immunity

Cabaret, J., 1977, Rec. Med. Vet., v. 153 (6), 419-427
gastrointestinal strongyles (Trichostrongylidae, Strongylidae), inhibition of larval development (hypobiosis), weather conditions, epidemiological aspects, review

Immunity

Calamel, M.; Soule, C.; and Chevrier, L., 1975, Rec. Med. Vet., v. 151 (12), 777-781
Taenia ovis, sheep, experimental infections with various doses, localization of cysticerci, duration of infection longer with lower doses, persistence of antibodies, eosinophilia

Immunity

Callow, L. L.; et al., 1974, Austral. Vet. J., v. 50 (1), 6-11
Babesia argentina, appreciable degree of immunity retained by cattle after sterilization of infections of varying duration by imidocarb, indirect fluorescent antibody test; duration of prior exposure to the parasite influenced the degree of immunity to subsequent challenge with heterologous strains of B. argentina

Immunity

Callow, L. L.; et al., 1974, Austral. Vet. J., v. 50 (1), 12-15
Babesia bigemina, cattle self-cured, drug-cured with imidocarb or with persistent infections showed an appreciable or strong degree of immunity to challenge (the finding is contrary to the concept of premunition); indirect fluorescent antibody test (antibody titre did not reflect degree of resistance to challenge)

Immunity

Callow, L. L.; Quiroga, Q. C.; and McCosker, P. J., 1976, Internat. J. Parasitol., v. 6 (4), 307-310
Babesia argentina, Anaplasma marginale, comparison of strains of each from Australia vs. Bolivia with indirect fluorescent antibody test showed serological identity of the two strains of each parasite, implications for vaccination; since earlier study showed serological identity between B. bovis and B. argentina, the small Babesia of Australia and South America should by priority be called B. bovis

Immunity

Campbell, G. H.; Esser, K. M.; and Weinbaum, F. I., 1977, Infect. and Immun., v. 18 (2), 434-438
Trypanosoma rhodesiense in mice, requirement for B-lymphocyte immunocompetence for immunity to infection

Immunity

Campbell, G. H.; and Phillips, S. M., 1976, Infect. and Immun., v. 14 (5), 1144-1150
Trypanosoma rhodesiense, mice, adoptive transfer of variant-specific resistance with B lymphocytes and serum but not with T lymphocytes, results implicate antibody-mediated mechanism as having major role in resistance

Immunity

Campbell, G. H.; Phillips, S. M.; and Esser, K. M., 1976, Abst. Ann. Meet. Am. Soc. Microbiol., 86
Trypanosoma rhodesiense, course of infection in athymic (nude) mice shows that T-cell independent mechanisms play major role in host resistance

Immunity

Campbell, W. C.; Malanga, C. M.; and Conroy, J. A., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 163
Trichinella spiralis infected mice, no significant protection against subsequent Trypanosoma cruzi infection

Immunity

Camus, D.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 482-490
Schistosoma mansoni, attempted correlation of immunoglobulin levels, antibodies, and delayed hypersensitivity reactions in infected patients living in defined endemic area: Bahia state, Brazil

Immunity

- Camus, D.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 290 [Demonstration] *Schistosoma mansoni*, modulation of host immune response by antagonistic factors released by schistosomes

Immunity

- Canto Solis, A.; et al., 1975, Prensa Med. Mexicana, v. 40 (9-10), 275-281
Entamoeba histolytica, human hepatic abscess, immunologic study of infected persons revealed evidence of altered humoral and cellular immunity

Immunity

- Capbern, A.; et al., 1977, Exper. Parasitol., v. 43 (1), 1-11
Trypanosoma equiperdum, multiplication in diffusion chambers implanted subcutaneously in the dorsal region of mice, effect of immunosuppressants, of immune serum, of temperature, of acquired immunity

Immunity

- Capbern, A.; et al., 1977, Ann. Parasitol., v. 52 (3), 237-251
Trypanosoma equiperdum, 2 strains giving rise to different clinical disease in rabbits (exper.), aspects of immune response (specific antibodies, hypermacroglobulinemia, anti-fibrinogen auto-antibodies) and coagulation disorders

Immunity

- Cappuccinelli, P., 1972, Parassitologia, v. 14 (2-3), 255-260
Armillifer armillatus, antigen, complement fixation and immunodiffusion studies of antibody response in rabbit; identification of active fractions by immunoelectrophoresis; immunodiffusion tests against *Echinococcus granulosus*, *Fasciola hepatica*, *Dicrocoelium dendriticum*, *Onchocerca volvulus* and *Ascaris suum*, no common antigens found

Immunity

- Capron, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 248-253
Schistosoma mansoni, complement dependent cytotoxic antibodies, correlation with clinical forms of infection, levels of other specific anti-S. mansoni antibodies, delayed hypersensitivity and presence of urinary M antigen in host

Immunity

- Capron, A.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 39-47
Schistosoma mansoni, interaction between IgE and macrophages and other effector cells involved in the in vitro killing of schistosomes, interaction of IgG₂ with same cell populations, possible cooperation between various antibody-dependent cell-mediated mechanisms and their possible in vivo relevance, workshop report

Immunity

- Capron, A.; et al., 1977, Ann. Immunol., v. 128C (1-2), 541-556
impairment of immune response in parasitic infections characterized by high prevalence of autoantibodies and by immunosuppression, review discussing malaria, trypanosomiasis, trichinosis, and schistosomiasis, with some original material on the last

Immunity

- Capron, A.; et al., 1977, European J. Immunol., v. 7 (5), 315-322
Schistosoma mansoni, rats, Ig-E immune complex-mediated macrophage cytotoxicity against schistosome, new mechanism of macrophage activation could play role in immune effector mechanisms against this parasite

Immunity

- Carlier, Y.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (6, pt. 1), 949-954
Schistosoma mansoni, human, thermostable parasitic urinary antigen demonstrated, relation with clinical, biological, and immunological parameters (including fecal egg count, host age, precipitating antibodies, IgE levels, 24-hr intradermal test)

Immunity

- Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, Vet. Parasitol., v. 2 (1), 75-81
Anaplasma marginale, cattle, cell-mediated immunity and correlation with protection induced by vaccination, review

Immunity

- Casarosa, L., 1976, Ann. Fac. Med. Vet., Univ. Pisa, v. 28, 1975, 53-63
Dictyocaulus filaria, guinea pigs (exper.), 3 increasing doses followed by challenge, histopathology of mesenteric and bronchial lymph nodes, trapped larvae surrounded by leucocytes and macrophages

Immunity

- Casarosa, L.; et al., 1976, Ann. Fac. Med. Vet., Univ. Pisa, v. 28, 1975, 71-77
Dictyocaulus filaria, third stage larvae, sensitized with immune sera, in vitro adherence reaction with eosinophils and pyroninophil cells from guinea pigs immunized with *D. filaria* somatic metabolic antigen

Immunity

- Casarosa, L.; and Lugetti, G., 1972, Parassitologia, v. 14 (1), 71-72
Dictyocaulus filaria, third stage larvae sensitized in immune serum, adherence reaction with guinea pig peritoneal macrophages

Immunity

- Casarosa, L.; Lugetti, G.; and Favati, V., 1974, Ann. Fac. Med. Vet. Pisa, v. 26, 1973, 373-384
adherence reaction between infective *Dictyocaulus filaria* larvae (sensitized with immune guinea pig serum) and guinea pig peritoneal macrophages; mixed antiglobulin reaction between infective *D. filaria* larvae and sheep red blood cells previously sensitized with photo-oxidized guinea pig anti-serum; adherence reaction induced by gamma globulin combining with cuticle of parasite

Immunity

Casarosa, L.; Lugetti, G.; and Marconcini, A., 1973, *Isotopes and Radiation Parasitol.* III, 113-126

Ascaris suum, guinea pigs vaccinated and then subjected to whole-body irradiation, enteric wall reactivity against challenge, relationship to in vitro adherence reaction

Immunity

Casarosa, L.; Lugetti, G.; and Marconcini, A., 1974, *Ann. Fac. Med. Vet. Pisa*, v. 26, 1973, 385-401

Ascaris suum-vaccinated guinea pigs, total body x-irradiation and challenge infection, enteric wall reactivity, globule leukocytes, immunoglobulin-containing cells; globule leukocytes depleted in challenged hosts; higher number of fluorescing mature plasma cells in lamina propria of vaccinated animals

Immunity

Casarosa, L.; Lugetti, G.; and Orlandi, M., 1975, *Ann. Fac. Med. Vet. Pisa*, v. 27, 1974, 87-90

Cystocaulus ocreatus, first stage larvae sensitized with immune serum, adherence reaction with normal guinea pig peritoneal macrophages

Immunity

Castro, G. A.; Post, C. A.; and Roy, S. A., 1977, *J. Parasitol.*, v. 63 (4), 713-719

Trichinella spiralis-immunized rats, challenge infection does not elicit changes in intestinal motility in contrast to a primary infection of equal size which enhances intestinal transit

Immunity

Castro, G. A.; Roy, S. A.; and Schanbacher, L. M., 1975, *J. Parasitol.*, v. 61 (6), 1053-1060

Trichinella spiralis, untreated worms or worms exposed to phytohemagglutinin or immune serum, in vitro effects of lamina propria cells from small intestine of immunized rats, deleterious effect of disrupted (but not intact) cells on juveniles and adults (but not larvae), vermucidal component not linked to peroxidase-H₂O₂-halide system

Immunity

Cederqvist, L. L.; et al., 1977, *Obst. and Gynec.*, v. 50 (2), 200-204

toxoplasmosis, children who develop congenital infection have an active immune response with elevated levels of IgM and IgA which distinguishes them from unaffected children of infected mothers and from normal controls

Immunity

Cerna, Z.; Louckova, M.; and Danek, J., 1974, *J. Protozool.*, v. 21 (3), 455 [Abstract]

Eimeria tenella, chickens, antibody formation blocked by clopidol but not by zoalene

Immunity

Cesari, I. M., 1976, *Internat. J. Parasitol.* v. 6 (4), 295-298

Schistosoma mansoni, presence of membrane-associated agglutinin directed against surface molecular determinants of untreated mouse and rat erythrocytes, seems to be host-independent worm membrane receptor, possible role in host-parasite adaptation mechanism

Immunity

Cesari, I. M.; and Marchiani, C., 1977, *Internat. J. Parasitol.*, v. 7 (4), 275-279

Schistosoma mansoni, membrane-associated agglutinin, inhibition studies, suggested that agglutinin might catch antigenic material onto worm surface and disguise it from host's immunological recognition

Immunity

Chadwick, J. S., 1975, *Invert. Immun. (Maramorosch and Shope)*, 241-271

hemolymph changes with infection or induced immunity in insects and ticks, review

Immunity

Chaicumpa, V.; Jenkin, C. R.; and Fischer, H., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (5), 561-570

Nematospiroides dubius, effect in vivo of peritoneal exudate cells of immune and normal mice on infectivity of third stage larvae

Immunity

Chang, C. H., 1975, *J. Chinese Soc. Vet. Sc.*, v. 1 (1), 1-6

Leucocytozoon sabraezesi, white Leghorn roosters, absence of relapse in naturally and experimentally infected birds, possible factors: Taiwan

Immunity

Chang, K.-P., 1976, *J. Protozool.*, v. 23 (2), 241-244

Blastocrithidia culicis, *Crithidia oncopelti*, symbiote-free strains: liver extract as essential growth factor in defined medium; cross-reactivity in reciprocal agglutination test with symbiote-containing strains indicates loss of symbiotes does not affect antigenic identity

Immunity

Chapman, H. D., 1974, *Research Vet. Sc.*, v. 16 (1), 7-11

course of mixed coccidial infection acquired by lambs born at pasture, immunity to challenge following this natural infection and following artificial infection (with primarily *Eimeria ninakohlyakimovae*), betamethasone administration caused increases in oocyst output

Immunity

Chappell, L. H.; and Pike, A. W., 1976, *Internat. J. Parasitol.*, v. 6 (4), 333-339

Hymenolepis diminuta, density-dependent loss from rat gut, data will fit either a competitive or an immunological model

Immunity

Chen, D. H.; Tigelaar, R. E.; and Weinbaum, F. I., 1977, *J. Immunol.*, v. 118 (4), 1322-1327

Plasmodium berghei, immunization of T and B cell-deficient mice with x-irradiated sporozoites, results demonstrate preeminent role for T cells in induction of protective immunity against sporozoite infection

Immunity

Chen, P.; and Soulsby, E. J. L., 1976, *Internat. J. Parasitol.*, v. 6 (2), 135-141

Haemonchus contortus infections in ewes during pregnancy, parturition, and lactation, blastogenic responses of peripheral blood leukocytes to non-specific mitogen, non-helminth antigens, and specific 3rd stage larval antigen, relationship to 'spring-rise' and 'self-cure' phenomena, possible hormonal factors

Immunity

Chen, S.-N., 1975, *Bull. Inst. Zool., Acad. Sinica*, v. 14 (2), 109-113

Angiostrongylus cantonensis as possible cause of human cases of eosinophilic meningitis, immunoglobulins and leucocytes in blood and cerebrospinal fluid, antibody to *A. cantonensis*, evidence for specific immune response, history of eating raw *Achatina fulica*

Immunity

Cheng, T. C.; and Auld, K. R., 1977, *J. Invert. Path.*, v. 30 (1), 119-122

Biomphalaria glabrata (principal intermediate host of *Schistosoma mansoni*), characterization of hemocytes preparatory to defining possible roles in immune response

Immunity

Chernin, J., 1977, *J. Helminth.*, v. 51 (2), 137-142

Taenia crassiceps, mice, production of precipitating antibodies in relation to duration of infection and volume of metacystodes, pattern of development of antigen-antibody precipitation system

Immunity

Chernin, J., 1977, *J. Helminthol.*, v. 51 (3), 215-219

Taenia crassiceps in laboratory rats, antigen common to metacystode and host

Immunity

Chernin, J., 1977, *Parasitology*, v. 75 (2), vii [Abstract]

Taenia crassiceps, comparison of several aspects of the response of rats vs. mice to infection with metacystodes

Immunity

Chhabra, M. B.; et al., 1976, *Trop. and Geogr. Med.*, v. 28 (2), 101-103

Toxoplasma gondii antibodies, serologic survey, prevalence in rhesus monkeys: India

Immunity

Chipperfield, E. J.; and Evans, B. A., 1972, *Clin. and Exper. Immunol.*, v. 11 (2), 219-223

Trichomonas vaginalis, influence of local infection on immunoglobulin formation in human endocervix observed using direct fluorescent antibody technique on specimens obtained by needle biopsy

Immunity

Chipperfield, E. J.; and Evans, B. A., 1975, *Infect. and Immun.*, v. 11 (2), 215-221

Trichomonas vaginalis, concentrations of IgA and IgG in cervical mucus from patients attending clinic for sexually transmitted diseases, comparison of those using oral contraceptives and those with presumed normal ovulatory cycles

Immunity

Cioli, D., 1976, *Internat. J. Parasitol.*, v. 6 (4), 355-362

Schistosoma mansoni transferred from mouse into hamsters pre-immunized against mouse erythrocytes were rejected but schistosomes transferred from rat into hamsters pre-immunized against rat erythrocytes were not rejected to any significant extent, significance in relation to possible protective function of host antigens

Immunity

Cioli, D., 1976, *Ztschr. Immunitaetsforsch.*, v. 152 (2), 79-80 [Abstract]

schistosomiasis, mice vs. rats, differences in response to challenge infections and possible mechanisms that would explain the difference

Immunity

Cioli, D.; and Dennert, G., 1976, *J. Immunol.*, v. 117 (1), 59-65

Schistosoma mansoni, effects of immunosuppression on pattern of infection in inbred rats that were thymectomized, irradiated, and reconstituted with T cell-free bone marrow cells, results show definite involvement of immune system in 'self-cure' phenomenon but may suggest involvement of other non-immune mechanisms as well

Immunity

Cioli, D.; and Neis, R., 1972, *Parassitologia*, v. 14 (1), 73-79

Schistosoma mansoni surgically transplanted from mice to hamsters, accepted by normal hamsters, rejected by hamsters pre-immunized against normal mouse red blood cells; evidence for host antigens

Immunity

Clark, I. A.; et al., 1977, *Infect. and Immun.*, v. 17 (2), 430-438

mice, infection with BCG provided good protection against *Babesia* species, intensity and duration of protection similar to that after natural recovery from babesiosis, parasites degenerated within circulating erythrocytes, neither increased specific immune response nor phagocytosis but a non-specific soluble effector substance is best explanation for protection

Immunity

- Clark, I. A.; et al., 1977, Parasitology, v. 75 (2), 189-196
Babesia microti, abnormal forms in red cells of mice recovering from infection are non-infective, indistinguishable from those present after amicarbalide treatment, and persist in splenectomized hosts, electron microscopy confirms forms as degenerating intra-erythrocytic parasites, probably products of immune response

Immunity

- Clark, I. A.; Allison, A. C.; and Cox, F. E., 1976, Nature, London (5541), v. 259, 309-311
Babesia, Plasmodium, protection of mice by previous infection with BCG, possible mechanism

Immunity

Immunity

- Clark, I. A.; Cox, F. E. G.; and Allison, A. C., 1977, Parasitology, v. 74 (1), 9-18
 mice pre-treated with killed *Corynebacterium parvum*, completely resistant to infection with *Babesia microti* or *B. rodhaini*, protected from death caused by *Plasmodium vinckei* or *P. chabaudi* infection, no antibody detected, suggested that non-specific soluble mediator may play important role in protection observed

Immunity

- Clark, I. A.; Wills, E. J.; and Richmond, J. E., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 12 [Demonstration]
 intra-erythrocytic death of *Babesia* and *Plasmodium* as host acquires immunity, possibly caused by soluble mediator liberated by host cells

- Clarkson, M. J., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 272 [Abstract]
Trypanosoma brucei and *T. congolense* in mice, immunoglobulin changes during infection

Immunity

- Clarkson, M. J., 1976, Parasitology, v. 73 (2), viii [Abstract]
Trypanosoma brucei, differential serum IgM response in different strains of mice, immunosuppression to sheep red blood cells demonstrated in mice with both high and low IgM concentrations

Immunity

- Clarkson, M. J., 1976, Pathophysiol. Parasit. Infect., 171-182
 trypanosomiasis of man and animals, IgM levels, possible role of IgM in pathogenesis, mechanism of increased IgM

Immunity

- Clarkson, M. J., 1976, Vet. Parasitol., v. 2 (1), 9-29
 trypanosomes, immunological problems, review: antigens; host reactions to infection; immunological state of host

Immunity

- Clarkson, M. J.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 2-3 [Demonstration]
Trypanosoma vivax, West African strain, serum protein changes in infected calves (exper.), possible mechanism of increased IgM

Immunity

- Clarkson, M. J.; Choudhry, M.; and Gillingham, T. J., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 2 [Demonstration]
Trypanosoma brucei-infected mice (exper.), changes in immunoglobulins

Immunity

- Clarkson, M. J.; and Esfandiari, A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 15-16 [Demonstration]
Capillaria obsignata in fowls (exper.), dynamics of infections, self cure and host immune response

Immunity

- Clarkson, M. J.; and Penhale, W. J., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 273 [Abstract]
Trypanosoma vivax, calves (exper.), serum protein changes

Immunity

- Cochrane, A. H.; et al., 1976, J. Immunol., v. 116 (3), 859-867
Plasmodium berghei, *P. cynomolgi*, antibody-induced ultrastructural changes of sporozoites, surface coat formation

Immunity

- Coelho, P. M. Z.; et al., 1976, J. Parasitol., v. 62 (1), 159-161
Schistosoma mansoni schistosomula of different ages (1 hr., 4 and 11 days) from hamsters, intraperitoneal transfer to mice immunized against hamster RBC or lymphoid cells, no statistically significant differences between number of worms recovered from immunized recipient mice and control animals

Immunity

- Cohen, S., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 283-286
 malarial immunity, differences in immune mechanisms induced by malarial infection vs. merozoite vaccination, symposium presentation

Immunity

- Cohen, S.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 223-232
 malaria, role of humoral and cell-mediated mechanisms in specific acquired immunity to erythrocytic stage, current status of merozoite vaccination, workshop report

Immunity

Cohen, S.; Butcher, G. A.; and Mitchell, G.H., 1977, *Advances Exper. Med. and Biol.*, v. 93, 89-112

immunization against erythrocytic forms of malaria parasites, review: malaria life cycle; innate and acquired resistance to malaria (specific malarial antibody, protective malarial antibody, synergistic action of malarial antibody and cells, role of specific cell-mediated immunity in malaria, isolation and properties of merozoites); vaccination against erythrocytic forms of malaria (vaccination and challenge using undefined and defined variants of *Plasmodium knowlesi*, adjuvant requirement for successful vaccination)

Immunity

Coleman, R. M.; et al., 1975, *Immunology*, v. 29 (1), 49-54

Plasmodium berghei, mice, cell-mediated cytotoxic activity against erythrocytes from malaria-infected animals demonstrated in vitro, splenic macrophages and nylon-purified spleen cells are implicated, antibody found to enhance cell-mediated lysis

Immunity

Coleman, R. M.; et al., 1976, *J. Parasitol.*, v. 62 (1), 138-140

Plasmodium berghei, transitory but heightened rate of destruction of normal transfused erythrocytes in infected rats

Immunity

Colette, J.; Garrigue, G.; and Sellin, B., 1976, *Nouv. Presse Med.*, v. 5 (24), 1540 [Letter]

Schistosoma mansoni and ancylostomiasis in humans, study of possible relationships between helminthiasis and presence of HBs antigens in blood in infected persons in Haute-Volta

Immunity

Colley, D. G., 1975, *J. Immunol.*, v. 115 (1), 150-156

Schistosoma mansoni, mice, chronic primary infection, immune responses to soluble egg antigen (lymphocyte blastogenesis, production of lymphokine eosinophil stimulation promoter, haemagglutinating antibody, PGA antibodies, peripheral blood eosinophilia), relationship to anti-egg granulomatous response and pathogenesis of the disease

Immunity

Colley, D. G.; Savage, A. M.; and Lewis, F. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 88-95

Schistosoma mansoni, host responses induced and elicited by cercariae, schistosomula, and cercarial antigenic preparations, workshop report

Immunity

Coltorti, E. A.; and Varela-Diaz, V. M., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 47-51

hydatid cysts from gerbils and mice and cysts transplanted from mice to gerbil peritoneal cavities, host IgG in cysts in variable concentrations, entrance of macromolecules possibly discontinuous or random; possible mechanisms

Immunity

Coltorti, E. A.; and Varela-Diaz, V. M., [1977], *Ann. Parasitol.*, v. 51 (6), 1976, 647-652

survival of hydatid cysts in vitro and in vivo (mice) after puncturing with fine gauge needles, ability of cysts to repair or recuperate from such a microfissure, results consistent with detection of antibody responses in persons harboring hyaline hydatid cysts with apparently intact membranes and with hypothesis of association between integrity of cyst membranes and degree of host immunological response

Immunity

Coman, B. J.; and Rickard, M. D., 1975, *Ztschr. Parasitenk.*, v. 47 (4), 237-248

Taenia spp., dogs, location in intestine, size, fecundity, egg hatching within intestine; infectivity of *T. pisiformis* eggs to rabbits (effects of canine intestinal secretions, intestinal passage and storage in feces); repeated *T. ovis* egg infection of puppies having no effect on subsequent *Cysticercus* infection

Immunity

Connan, R. M., 1976, *Vet. Rec.*, v. 99 (24), 476-477

gastrointestinal nematodes, suppressed immune response of host during lactation primarily of endocrinal origin, review

Immunity

Corba, J.; and Spaldonova, R., 1974, *Biologia, Bratislava, s. B, Zool.* (1), v. 29 (2), 167-173

Trichinella spiralis, mice, immunosuppressive substances given at intestinal phase cause significant increase of muscle trichinellae, but only slight increase when given at migratory phase; host immunity mechanism more effective at intestinal phase and its inhibition causes longer stay in intestine, higher reproduction and more larvae in muscle phase

Immunity

Cordero del Campillo, M.; et al., 1974, *Rev. Iber. Parasitol.*, v. 34 (3-4), 305-315

case history, horse infected with *E[rysipelothrix]* insidiosa to produce hyperimmune serum, rapid death from Babesia, considered to be activation of carrier state; possible tick vectors reviewed: Leon (N.W. Spain)

Immunity

Cornille-Brogger, R., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 515-516

human malaria high endemicity area, man with serum IgM deficiency, case report, relevance to protective immunity from malaria unknown

Immunity

Corrier, D. E.; and Adams, L. G., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 60-65

Anaplasma marginale, *Babesia bigemina*, concurrent infections in calves (exper.), clinical course, serological response, pathological manifestations

Immunity

- Cottrell, B., 1976, *Parasitology*, v. 73 (2), xxxiv [Abstract]
Cryptocotyle lingua and *Rhipidocotyle johnstonei* induced temperature-dependent precipitin response in *Pleuronectes platessa*; *Trypanosoma platessae*-infected *P. platessa* had elevated serum beta-globulin levels, pronounced seasonal variation in numbers of infected fish pointed to temperature-controlled immunity

Immunity

- Cottrell, B., 1977, *Parasitology*, v. 74 (1), 93-107
Cryptocotyle lingua, *Rhipidocotyle johnstonei*, *metacercariae*-infected *Pleuronectes platessa*, humoral immune response, precipitating antibodies are macroglobulins resembling IgM of mammals, rate and magnitude of antibody production determined by ambient temperature

Immunity

- Cottrell, B. J., 1977, *J. Fish Biol.*, v. 11 (1), 35-47
Trypanosoma platessae in *Pleuronectes platessa* (blood) (nat. and exper.), brief re-description, age of host, seasonal variation may be related to change in ambient temperatures and host immunity levels, host specificity: Looe Bay

Immunity

- Cottrell, B.J.; Playfair, J.H.L.; and de Sousa, B., 1977, *Exper. Parasitol.*, v. 43 (1), 45-53
Plasmodium yoelii, *Plasmodium vinckei*, mice, effects of nonspecific immunostimulation with a variety of agents

Immunity

- Cox, J. C., 1977, *Infect. and Immun.*, v. 15 (2), 392-395
Encephalitozoon cuniculi-infected rabbits, depressed IgG response and elevated IgM response to *Brucella abortus* as immunogen

Immunity

- Crandall, C. A., 1976, *Exper. Parasitol.*, v. 39 (1), 69-73
Ascaris suum, mice, measurement of homocytotropic antibody response (IgG₁, IgE), infection did not potentiate reaginic response to ovalbumin, not promising model for study of reagin production in helminth infections

Immunity

- Crandall, R. B., 1975, *J. Parasitol.*, v. 61 (3), 566-567
Trichinella spiralis, C57B1/6J mice, decreased resistance with age, prior infection prevented increased susceptibility of aged mice

Immunity

- Crandall, R. B.; Crandall, C. A.; and Muth, B., 1976, *J. Parasitol.*, v. 62 (2), 321-323
acute *Plasmodium berghei yoelii* infection in mice, comparison of delayed hypersensitivity response mediated through spleen vs. that mediated through peripheral lymph nodes

Immunity

- Cross, J. H.; et al., 1976, *Trop. and Geogr. Med.*, v. 28 (4), 355-358
Toxoplasma gondii, seroepidemiologic survey of domestic animals for haemagglutinating antibodies, goats used as meat animals found to have high titers, possible role in transmission to man: Indonesia

Immunity

- Cross, J. H.; Irving, G. S.; and Gunawan, S., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (4), 467-471
Entamoeba histolytica, *Toxoplasma gondii*, statistics of seroimmunological survey for prevalence of antibodies to amoebiasis and toxoplasmosis in villagers of Central Java, Indonesia

Immunity

- Crum, E. D.; Despommier, D. D.; and McGregor, D. D., 1977, *Immunology*, v. 33 (6), 787-795
Trichinella spiralis, rats, immunization by series of methyridine-terminated oral infections with larvae, thoracic duct lymphocytes from immunized animals can protect normal rats against challenge, protective cells belong to 2 different populations, immune serum and lymph fail to transfer resistance

Immunity

- Cuckler, A. C., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 371-397
coccidiosis and histomoniasis in avian hosts, host-parasite relationships, immunity, review

Immunity

- Cypess, R. H.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 34-43
Heligmosomoides polygyrus, temporal, spatial, and morphological population characteristics in LAF. vs. A/He mice examined in order to determine possible mechanisms responsible for differences in expression of resistance between these two mouse strains

Immunity

- Cypess, R. H.; Ebersole, J. L.; and Molinari, J. A., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 55 (1-6), 496-503
Heligmosomoides polygyrus-infected mice, intestinal perfusates, radial immunodiffusion analysis, alteration in amount and class of immunoglobulins as well as anti-parasitic antibody

Immunity

- Cypess, R. H.; and Zidian, J. L., 1975, *J. Parasitol.*, v. 61 (5), 819-824
Heligmosomoides polygyrus, development of self-cure and/or protection, influence of host genetic background (several inbred and outbred mouse strains) and various experimental conditions (route, dose, larval preparation)

Immunity

- D'Alessandro, P. A., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 691-738
nonpathogenic trypanosomes of rodents, immunology, review

Immunity

Damian, R. T.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 299-306

Schistosoma mansoni in Papio cynocephalus, parasitological, clinical, and histopathological observations, development of immunity

Immunity

Danis, M.; et al., 1977, Brit. Med. J. (6098), v. 2, 1356 [Letter]

multiple hepatic and peritoneal echinococcal cysts in man treated with flubendazole with improvement of general health but no evidence that cysts were in state of regression; discussion of criteria for using IgE antibodies and immune complexes to assess efficacy of treatment

Immunity

Dar, F. K.; et al., 1973, Ann. Trop. Med. and Parasitol., v. 67 (1), 21-29

techniques used to study serotypes of salivarian trypanosomes being circulated by tsetse flies in 4 separate geographical areas, methods used to isolate and serologically type the trypanosomes are described and discussed in detail: Uganda and Kenya, East Africa

Immunity

David, J. R., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 123-125

Schistosoma mansoni, mechanism of antibody-dependent eosinophil-mediated damage to schistosomula, brief presentation of results of two studies, workshop report

Immunity

David, J. R.; et al., 1977, J. Immunol., v. 118 (6), 2221-2229

Schistosoma mansoni, antibody-dependent eosinophil-mediated damage to schistosomula, effect of metabolic inhibitors and other agents which alter cell function

Immunity

David, J. R.; and Butterworth, A. E., 1977, Fed. Proc., v. 36 (8), 2176-2180

Schistosoma mansoni, antibody-dependent eosinophil-mediated damage to schistosomula, review of recent work

Immunity

Dean, D. A., 1977, J. Parasitol., v. 63 (3), 418-426

Schistosoma mansoni schistosomula, decreased binding of cytotoxic antibody, evidence for surface change independent of host antigen adsorption and membrane turnover

Immunity

Dean, D. A.; Wistar, R.; and Chen, P., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 74-82

Schistosoma mansoni, immune response of guinea pigs, in vitro effects of antibody and neutrophils, eosinophils and macrophages on schistosomula

Immunity

Decia, C.; and Castro, E. R., 1968, Bol. Chileno Parasitol., v. 23 (1-2), 19-23

Anaplasma marginale in bovines (exper.), changes in serum protein values during infection

Immunity

Decia, C.; and Castro, E. R., 1968, Bol. Chileno Parasitol., v. 23 (1-2), 26-29

Babesia bigemina in calves (exper.), serum proteins and hematologic variations before infection, during prepatent, patent, and convalescent periods

Immunity

Delespesse, G.; Ishizaka, K.; and Kishimoto, T., 1975, J. Immunol., v. 114 (3), 1065-1071

rabbit lymphocyte populations responding to haptenic and carrier determinants for DNA synthesis, DNP-Ascaris suum conjugate used as one of antigens

Immunity

De Rosa, F.; et al., 1972, Parassitologia, v. 14 (2-3), 275-286

echinococcosis, secondary peritoneal hydatidosis in experimental mice, antigen vaccination; inoculation with scolices, quantitative studies, various factors in receptivity

Immunity

Desowitz, R. S., 1965, Med. J. Malaya, v. 20 (1), 52-53

oxygen consumption of Plasmodium berghei in presence of normal or immune rat serum and chloroquine, possible usefulness in drug screening and determination of drug-serum clearance rates

Immunity

Desowitz, R. S., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 551-596

immunology of African trypanosomes, review

Immunity

Desowitz, R. S.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 430 [Demonstration]

Dirofilaria immitis-infected dogs treated with diethylcarbamazine, severe drug reaction generally in dogs with high microfilaremia probably result of antigen and antibody combining on surface of serotonin-rich platelets, release of serotonin from damaged platelets having vascular permeability-increasing effect leading to shock

Immunity

Despommier, D., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 68-75

Trichinella spiralis, immunity, correlation of biological activities of various stages of infection with host protective mechanisms active against these worm stages, workshop report

Immunity

Despommier, D. D.; et al., 1977, Immunology, v. 33 (6), 797-805

Trichinella spiralis, influence of immune lymphocytes on life cycle in normal and in irradiated rats, localization of labelled lymphocytes in tissues, evidence that immunity is directed against enteral stage of parasite and is expressed in rapid expulsion of worms from small intestine, immune T cells probably have 'helper' function in promoting formation of protective B cells

Immunity

Despommier, D. D.; Campbell, W. C.; and Blair, L. S., 1977, *Parasitology*, v. 74 (1), 109-119
Trichinella spiralis, correlation of in vitro adult worm fecundity with recoverable muscle larvae in immunized and non-immunized rats; in vitro fecundity of individual adult female worms recovered from non-immunized mice; effects of a high vs. a low dose of antigen on adult counts, adult fecundity, and number of recoverable muscle larvae in mice

Immunity

Dessaïnt, J. P.; et al., 1975, *Immunology*, v. 29 (5), 813-823
Echinococcus granulosus, human hydatid disease, serum IgE levels, quantification of specific IgE antibodies, highly significant correlation between levels of total serum IgE and IgE antibodies

Immunity

Dessaïnt, J. P.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 290 [Demonstration]
Schistosoma mansoni, IgE binding to membrane of macrophages, eosinophils, and mast cells with the 3 cell types participating in in vitro cytotoxic effector mechanisms against schistosomula

Immunity

Diesfeld, H. J.; Dutta, S. N.; and Braun-Munzinger, R., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 439-446
Wuchereria bancrofti-endemic area, survey of 225 Indians, microfilaremia, fluorescent antibody titer, clinical manifestations, eosinophilia, immunoglobulin levels: Dhanbad/Asansol, India

Immunity

Diesfeld, H. J.; and Kirsten, C., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 499-502
Dipetalonema vitae, localization of antigen-antibody reactions in male and female using immunofluorescence and serum from human filariasis patients; possible implications for diagnosis of human infection

Immunity

Diffley, P.; and Honigberg, B. M., 1977, *J. Parasitol.*, v. 63 (4), 599-606
Trypanosoma congolense, presence, host specificity, and time of accretion of rat plasma components on parasite surface, quantitative indirect fluorescent antibody analysis

Immunity

Diggs, C.; et al., 1976, *J. Immunol.*, v. 116 (4), 1005-1009
Trypanosoma rhodesiense, measurement of leucine incorporation in vitro as assay of functional integrity, use of this system in demonstrating cytotoxic activity in serum of immunized rats, dependence of activity on serum dose and on heat-labile normal serum constituent(s)

Immunity

Diggs, C. L.; and Osler, A. G., 1975, *J. Immunol.*, v. 114 (4), 1243-1247
Plasmodium berghei, rats, evidence suggests that schizonts and/or merozoites are targets of protective antibody action

Immunity

Dineen, J. K.; and Kelly, J. D., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 51 (4), 429-440
Nippostrongylus brasiliensis, primary and secondary infections in rats, intestinal prostaglandin levels in relation to worm expulsion

Immunity

Dineen, J. K.; Kelly, J. D.; and Love, R. J., 1973, *Internat. Arch. Allergy and Applied Immunol.*, v. 45 (4), 504-512
Nippostrongylus brasiliensis, mesenteric lymph node cells from immunized donors caused expulsion of transplanted damaged worms or adult worms developed from larval infection in both irradiated or non-irradiated syngeneic recipients but cells from unimmunized donors failed to affect the parasite

Immunity

Dineen, J. K.; Ogilvie, B. M.; and Kelly, J. D., 1973, *Immunology*, v. 24 (3), 467-475
Nippostrongylus brasiliensis, expulsion from intestine of rats, collaboration between humoral and cellular components of immune response

Immunity

Dobson, C.; and Owen, M. E., 1977, *Internat. J. Parasitol.*, v. 7 (6), 463-466
Nematospiroides dubius, influence of serial passage on infectivity and immunogenicity in mice

Immunity

Dobson, C.; Rockey, J. H.; and Soulsby, E. J. L., 1971, *J. Immunol.*, v. 107 (5), 1431-1439
Ascaris suum, guinea pigs, characterization of IgE antibodies

Immunity

Dojmi Di Delupis, G.; Palmieri, C.; and Piccione, G., 1972, *Parassitologia*, v. 14 (2-3), 305-308
Plasmodium gallinaceum, maintenance in lines of *Anopheles stephensi* selected for low or high receptivity, development of oocysts in various generations of both lines

Immunity

Dokow, S.; et al., 1974, *J. Protozool.*, v. 21 (3), 463 [Abstract]
Plasmodium berghei-infected rats, splenocyte population, change in balance between formation of immunocompetent and erythropoietic cells

Immunity

Dorf, M. E.; et al., 1975, *J. Immunol.*, v. 114 (6), 1717-1719
in vivo cooperative responses between lymphocytes are controlled by genes in K-end of H-2 complex, DNP-*Ascaris suum* used as antigen

Immunity

Douglass, W. R.; and Haskin, H. H., 1976, J. Invert. Path., v. 27 (3), 317-323

Minchinia nelsoni disease development in susceptible oysters, Crassostrea virginica, alterations in hemolymph protein, aspartate and alanine aminotransferases, and phosphohexose isomerase; host metabolic changes; possible humoral defense mechanisms

Immunity

Doyle, J. J., 1973, Research Vet. Sc., v. 14 (1), 97-103

Fasciola hepatica, calves (exper.), relationship between duration of primary infection and subsequent development of acquired resistance

Immunity

Dranga, A.; et al., 1976, Bacteriol., Virusol., Parazitol., Epidemiol., Bucuresti, v. 21 (4), 219-225

immunoepidemiologic survey of family members after birth of child with congenital toxoplasmosis

Immunity

Dubey, J. P.; Christie, E.; and Pappas, P. W., 1977, J. Infect. Dis., v. 136 (3), 432-435

Toxoplasma gondii from feces of naturally infected cats, pathogenicity and infectivity of 7 strains of oocysts and cysts compared by infecting mice (exper.) orally and intraperitoneally; cross-immunity of all strains, cysts less pathogenic than oocysts

Immunity

Dubey, J. P.; Hoover, E. A.; and Walls, K. W., 1977, J. Protozool., v. 24 (1), 184-186

Toxoplasma gondii, cats, effect of host age and sex on oocyst shedding, parasite multiplication in tissues, and acquisition of immunity

Immunity

Dumon, H.; Vervloet, D.; and Quilici, M., 1976, Compt. Rend. Soc. Biol., Paris, v. 170 (3), 639-641

Echinococcus granulosus, human peripheral leukocytes from patients with hydatid disease, in vitro, adherence to scolices, ensheathment prevented if normal serum used in place of immune serum

Immunity

Duong, T. H.; and Barrabes, A., 1976, Compt. Rend. Soc. Biol., Paris, v. 170 (4), 908-915

Entamoeba h. histolytica (exper.), level of circulating antibodies (indirect immunofluorescence) is lower in female castrated golden hamsters implanted with pellet of oestradiol than in castrated control animals

Immunity

DuPont, H. L.; et al., 1976, N. England J. Med., v. 295 (27), 1520-1521

Entamoeba histolytica and Giardia lamblia classified as pathogens in survey of Latin American and United States students' susceptibility to travellers' diarrhea; repeated exposure to G. lamblia may not lead to protective immunity as parasite commonly found in symptomatic and asymptomatic persons: Mexico

Immunity

Dusanic, D. G., 1974, J. Protozool., v. 21 (3), 422 [Abstract]

Trypanosoma duttoni from mice grown in vitro at 37°C., lack of marked ablastin activity in homologous mouse antisera, reproductive activity completely inhibited by heterologous antisera from T. lewisi-infected rats

Immunity

Dwivedi, S. K.; and Gautam, O. P., 1977, Indian J. Animal Sc., v. 46 (12), 1976, 627-629

Babesia bigemina, splenectomized calves, berenil treatment during acute stage, no immunity to challenge with heterologous strain; treatment during carrier stage, survival after heterologous challenge

Immunity

Dwivedi, S. K.; Gautam, O. P.; and Banerjee, D. P., 1977, Indian Vet. J., v. 54 (9), 697-702

Babesia bigemina, splenectomized calves, imidocarb dipropionate, therapeutic and prophylactic trials, excellent results, development of acquired immunity following treatment

Immunity

Dwyer, D. M., 1976, J. Protozool., v. 23 (2), 16A-17A [Abstract]

Trypanosoma lewisi, adsorbed rat serum proteins in surface coat

Immunity

Dwyer, D. M., 1976, Proc. Nat. Acad. Sc., v. 73 (4), 1222-1226

Trypanosoma lewisi, bloodstream forms isolated from rats, ultrastructural and immunologic evidence of avidly bound host serum proteins in surface coat, not present in intact culture or trypsinized bloodstream forms but reacquired after incubation in heterologous host serum proteins

Immunity

Dwyer, D. M.; and D'Alesandro, P. A., 1976, J. Protozool., v. 23 (2), 262-271

Trypanosoma musculi bloodstream forms, lectin agglutination, fine structure localization of concanavalin A sites, antibody agglutinations (regular presence of surface-bound host serum proteins; induced surface adsorption of serum proteins), fine structural evidence of host serum in surface coat

Immunity

Dzbeniski, T. H.; Michalak, T.; and Plonka, W. S., 1976, Infect. and Immun., v. 14 (5), 1196-1201

Toxoplasma gondii trophozoites from mouse peritoneal exudate, cap formation, electron microscopic and radioisotopic studies, possibly reflects a mechanism by which parasite evades host's immune response

Immunity

Dzbeniski, T. H.; and Zielinska, E., 1976, Experimentia, v. 32 (4), 454-456

Toxoplasma gondii trophozoites move surface membrane antigens towards one pole of the cell when incubated with antibodies to form a 'cap', phenomenon prevented by metabolic inhibitors and low temperatures

Immunity

- Ehrenford, F. A., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 399-420
avian immunity to metazoan parasites, review

Immunity

- Ejden, J.; and Inglesini, C. L., 1972, *Medicina*, Buenos Aires, v. 32 (3), 231-234
IgG established as immunoglobulin responsible for reactions of passive hemagglutination and latex agglutination tests in diagnosis of human echinococcosis

Immunity

- Ekmen, H.; and Altintas, K., 1972, *Mikrobiyol. Bul.*, v. 6 (4), 433-438
Toxoplasma gondii, women suffering habitual abortions, changes in antibody titers and decreased stillbirths after treatment with pyrimethamine and sulfamides during pregnancy: Turkey

Immunity

- El-Bishlawi, O., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 307-308 [Letter]
Schistosoma haematobium, adhesion of red blood cells to ova as cause of hematuria; similar adhesion phenomenon observed with microfilariae in blood-tinged hydrocoele fluid

Immunity

- Elliott, D. C.; and Durham, P. J. K., 1976, *Vet. Parasitol.*, v. 2 (2), 167-175
Ostertagia spp., challenge infections in previously exposed sheep (exper.), greatly reduced worm numbers, rate of worm development, and pathological effects when compared to infections in previously worm-free animals

Immunity

- Ellis, J. C.; Bourns, T. K. R.; and Rau, M. E., 1975, *Canad. J. Zool.*, v. 53 (12), 1803-1811
Trichobilharzia ocellata, previously infected Anas platyrhynchos and A. rubripes exposed to homologous challenge infections, migration, growth and development, and condition compared to initial infection

Immunity

- El-On, J.; and Greenblatt, C. L., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 19 [Demonstration]
Trypanosoma lewisi, rats, increased susceptibility to infection when given cyclophosphamide (Cyl-rats) as immuno-suppressive, possible role of exoantigens in development of anemia, precipitating antibodies to Trypanosoma lewisi in rabbits inoculated with plasma from Cyl rats whether infected or not

Immunity

- El-Rasiky, E. H.; et al., 1974, *Egypt. J. Bilharz.*, v. 1 (2), 287-295
schistosomiasis, investigation of changes in serum immunoglobulins of infected persons before and after therapy with niridazole

Immunity

- Emslie, V. W.; and Kershaw, W. E., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 7 [Demonstration]
mice infected with Trypanosoma brucei, treated with antrypol and then infected with Litomosoides carinii, decreased host resistance to subsequent infection and to relapse from first infection, few visible immunologic changes observed

Immunity

- Endo, T.; and Kobayashi, A., 1976, *Exper. Parasitol.*, v. 40 (2), 170-178
Toxoplasma gondii, Sabin-Feldman dye test reaction, electron microscopic study: intracellular organelles stainable with alkaline methylene blue (primarily those rich in nucleic acids), morphological changes in parasite affected by specific immune reaction

Immunity

- Fakunle, Y. M.; and Greenwood, B. M., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 346-347
tropical splenomegaly syndrome, IgM metabolism

Immunity

- Farah, F. S.; Lazary, S.; and De Weck, A., 1976, *Immunology*, v. 30 (5), 629-634
Leishmania tropica and its products are capable of inhibition of the stimulation of normal mouse and guinea-pig lymphocytes by phytohaemagglutinin, inhibition is dose-dependent and not dependent on competition for nutrients in medium nor on neutralization of phytohaemagglutinin, inhibition observed on lymphocytes of species susceptible to leishmanial infection but not operative in resistant species

Immunity

- Farrell, J. P., 1976, *Exper. Parasitol.*, v. 40 (1), 89-94
Leishmania donovani, acquired resistance in Mesocricetus auratus, previous subcutaneous infection confers ability to limit visceral parasite numbers after intracardial challenge, possible model for study of immunity to kala-azar

Immunity

- Faubert, G. M., 1976, *Immunology*, v. 30 (4), 485-489
Trichinella spiralis, depression of plaque-forming cells to sheep red blood cells by new-born larvae in vivo (mice) and in vitro, transitory phenomenon

Immunity

- Faubert, G. M., 1977, *Exper. Parasitol.*, v. 43 (2), 336-341
Trichinella spiralis in Swiss mice, expulsion rate during primary and challenge infections, numbers of encysted muscle larvae also needed as assay for immunity, response of plaque-forming cells to sheep red blood cells in challenge infections used to determine timing of immunosuppression

Immunity

- Faubert, G. M.; and Tanner, C. E., 1975, *Immunology*, v. 28 (6), 1041-1050
Trichinella spiralis, leucoagglutinating and leucotoxic activity of serum of infected mice and of saline extracts of larvae, capacity of infected mouse sera to prolong skin allografts

Immunity

- Fauve, R. M.; and Dodin, A., 1976, *Compt. Rend. Acad. Sc., Paris*, v. 282, s. D (1), 131-134
Schistosoma mansoni, mice, inflammatory reaction from subcutaneous injection of BCG or talc results in resistance to the parasite, speculation on possible mechanisms

Immunity

- Fayer, R.; and Lunde, M. N., 1977, *J. Parasitol.*, v. 63 (3), 438-442
Sarcocystis from dogs, calves (exper.), changes in serum and plasma proteins and in IgG and IgM antibodies

Immunity

- Fernandes, B. J.; et al., 1976, *Canad. Med. Ass. J.*, v. 115 (11), 1111-1114
Alaria americana mesocercariae, massive infection in man with parasites present throughout body, bithionol therapy unsuccessful, diagnosis by lung biopsy confirmed at autopsy, infection probably from eating undercooked frogs' legs, generalized immunologic reactions, clinical report: Ontario, Canada

Immunity

- Fernando, S. T.; and Soulsby, E. J. L., 1974, *J. Comp. Path.*, v. 84 (4), 569-576
Toxocara canis, immunoglobulin classes of antibodies in infected *Macaca sinica*

Immunity

- Ferris, D. H.; Beamer, P. D.; and Stutz, D. R., 1973, *Avian Dis.*, v. 17 (1), 12-23
Plasmodium gallinaceum, response to exper. infection in dysgammaglobulinemic chickens compared to infected sham bursectomized and intact birds: parasitemia, histopathology; results indicate that resistance to initial infection is related to bursa-mediated defenses and humoral factors have a role in protection against malaria

Immunity

- Feteanu, A.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 101-111
Syngamus trachea, chicks, pheasants, immunization with irradiated larval antigen, fluorescent antibody technique for detection of serum antibodies

Immunity

- Finch, S. C.; and Jonas, A. M., 1973, *J. Reticuloendothel. Soc.*, v. 13 (1), 20-26
Hemobartonella muris, rats, activation of latent infection with development of hemolytic anemia after parenteral administration of ethyl palmitate, effect probably due to development of acute splenic necrosis with loss of splenic sinusoidal function

Immunity

- Finerty, J. F.; and Krehl, E. P., 1976, *Infect. and Immun.*, v. 14 (4), 1103-1105
Plasmodium berghei yoelii, mice, protection from lethal infection by pretreatment with cyclophosphamide, development of resistance preceded by increased hypersensitivity demonstrated by delayed footpad swelling technique

Immunity

- Fistein, B.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 10 [Demonstration]
Trypanosoma cruzi: inheritance of ability of *Rhodnius prolixus* to transmit infection; natural and acquired inhibitory factors in animal sera against parasites in culture; ability of all immature and mature stages of *Rhodnius prolixus* to acquire and transmit infection

Immunity

- Fluck, D. J.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (5), 638-643
tropical splenomegaly syndrome, ultrastructure of hepatic sinusoids, general appearance is consistent with occurrence of complex immunological reaction

Immunity

- Foley, D. A.; and Vanderberg, J. P., 1977, *Exper. Parasitol.*, v. 43 (1), 69-81
Plasmodium berghei, successful transmission to rats, mice, and hamsters using liver from sporozoite-infected rats without concomitant blood infections, concluded that infections were due to immature exoerythrocytic schizonts (EES), other life cycle stages rigorously excluded as cause of infectivity, immunity to malaria in sporozoite-immune mice does not extend to EES

Immunity

- Ford, G. E., 1971, *Immunology*, v. 21 (6), 1073-1078
Trichostrongylus retortaeformis, heterogeneity of allergens and of homocytotropic antibody responses to them in rabbits

Immunity

- Fox, J. C., 1976, *Vet. Parasitol.*, v. 1 (3), 209-220
Obeliscoides cuniculi, inhibited development in rabbits: effects of active and passive immunization and resumption of larval development (fewer males developed than females), data indicate that host immune responses contribute to inhibition and that worm egg production is also responsive to immunologic control

Immunity

- Frankenburg, S.; et al., 1977, *Exper. Parasitol.*, v. 43 (2), 362-369
Plasmodium berghei, rats, appropriate balance between immunocompetent and erythropoietic cells in spleen is one of critical factors in determining fate of infected animal

Immunity

- Frankenburg, S.; and Greenblatt, C. L., 1977, *J. Protozool.*, v. 24 (4), 66A [Abstract]
Plasmodium berghei, mice with primary vs. secondary infections, cellular changes in bone marrow

Immunity

Freeman, B. J.; et al., 1973, *J. Protozool.*, v. 20 (4), 512
effects of *Trypanosoma lewisi* on concurrent infections with *Hymenolepis diminuta*, rats

Immunity

Fregene, A. O.; et al., 1975, *J. Parasitol.*, v. 61 (6), 1070-1073
comparative responses of radioattenuated *Trypanosoma brucei* and *T. congolense* in rats: radiation sensitivity with respect to infectivity; immunogenicity

Immunity

de Freitas, G.; et al., 1975, *J. Protozool.*, v. 22 (3), 35A [Abstract]
no significant difference in immunoglobulin levels in chronic Chagas disease vs. uninfected controls: Bambui, Minas Gerais, Brazil

Immunity

Frenkel, J. K., 1976, National Cancer Inst. Monograph (43), 13-30
"there is justification to regard *Pneumocystis* from rats and man as different species. . . that from humans is designated *P. jiroveci* n. sp. . . no significant morphologic differences between the two species are recognized; the separation rests on apparent species specificity and serologic differences.", morphology, physiology and immunology in relation to pathology

Immunity

Frenkel, J. K., 1977, *J. Parasitol.*, v. 63 (4), 611-628
Besnoitia wallacei, mice, rats, cats, serologic tests, cross reactions with *B. jellisoni*, *Toxoplasma gondii*, and *Sarcocystis muris*, immunity to challenge, slight cross-immunity with *B. jellisoni* in mice and rats

Immunity

Frenkel, J. K.; and Reddy, J. K., 1977, *J. Reticuloendothel. Soc.*, v. 21 (1), 61-68
chemical induction of liver neoplasms is delayed but not prevented in rats chronically infected with *Toxoplasma gondii* or *Besnoitia jellisoni*, possible role of activated macrophages in mediating this protection

Immunity

Frapp, P. J., 1969, *Med. Proc.*, Johannesburg, v. 15 (21), 373-378; (22), 377-383
variations in immune reactions and resistance to schistosomiasis infections in man and exper. animals, extensive review

Immunity

Frapp, P. J., 1977, *South African J. Sc.*, v. 73, 50-53
Schistosoma mansoni, human, immune processes, brief review

Immunity

Fuson, E. W.; Jones, A. W.; and Murray, F. A., 1976, *Exper. Parasitol.*, v. 40 (2), 225-231
Trypanosoma lewisi, in vitro maintenance of blood stream form, cultured trypanosomes are susceptible to both trypanocidal antibodies and show longer period of susceptibility to ablastin than previously reported

Immunity

Gallie, G. J.; and Sewell, M. M. H., 1976, *Trop. Animal Health and Prod.*, v. 8 (4), 233-242

Taenia saginata, immunization of calves with intramuscular inoculation of non-living antigen or hatched eggs, or oral infection of unhatched eggs, antibody response to challenge infection, serological and haematological responses

Immunity

Gardner, I. D.; and Remington, J. S., 1977, *Infect. and Immun.*, v. 16 (2), 593-598
Toxoplasma gondii, mice, age-related decline in resistance to infection, possible role of serum factors and spleen cells in altered resistance of older mice

Immunity

Garnham, P. C. C., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 767-791
primate malaria, immunology, review

Immunity

George, C. R. P.; Parbtani, A.; and Cameron, J. S., 1976, *J. Path.*, v. 120 (4), 235-249
Plasmodium berghei yoelii in mouse model, nephropathy and immunologic responses before and after antimalarial, immunosuppressive and anticoagulant therapy

Immunity

Gerber, H. C.; Hoerchner, F.; and Zander, B., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 57-66
Nippostrongylus brasiliensis, studies in vitro with serum or secretory antibodies from rats, no effect with antibodies from either infected or uninfected rats; degranulation of mast cells from infected rats but no effect on *N. brasiliensis*

Immunity

Gesinski, R. M.; and Napoletano, T. S., 1976, *Science Biol. J.*, v. 2 (3), 84-88
Plasmodium berghei-infected mice, increased oxygen consumption by bone marrow cells, decreased oxygen consumption in presence of antibodies

Immunity

Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 255-264
Schistosoma mansoni, humans, measurement of serum immunoglobulins at different stages of parasitic infection

Immunity

Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 265-270
Schistosoma mansoni, measurement of immunoprecipitins to cercarial, egg, and adult worm antigens in infected persons with various clinical stages of disease

Immunity

Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 271-276
Schistosoma mansoni, measurement of immunoprecipitins to somatic antigens in patients with liver and spleen involvement; possible roles of cercariae, adult worms, and eggs in producing pathology with schistosome ova probably initiating autoimmune reactions

Immunity

- Ghose, A. C., 1976, *Experientia*, v. 32 (8), 1059-1061
sera from guinea pigs infected with *Leishmania enriettii* showed higher hemagglutination titres for neuraminidase-treated human erythrocytes than those of normal guinea pigs

Immunity

- Ghose, A. C.; and Chowdhury, A. B., 1977, *Indian J. Med. Research*, v. 66 (4), 566-569
human malaria and kala-azar, immunoglobulin levels of persons with known infections compared with normal controls

Immunity

- Ghose, A. C.; and Rowe, D. S., 1977, *Immunology*, v. 14 (6), 459-465
Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity

- Gibson, T. E.; and Everett, G., 1976, *J. Comp. Path.*, v. 86 (2), 269-274
Ostertagia circumcincta, lambs, effect of different levels of larval intake on faecal egg counts and weight gain, no significant acquired resistance demonstrated

Immunity

- Gibson, T. E.; and Everett, G., 1977, *Brit. Vet. J.*, v. 133 (4), 360-364
Ostertagia circumcincta, lambs, different levels of larval intake to simulate seasonal pasture conditions, effect on fecal egg output, possible grazing management regimes to reduce worm infections

Immunity

- Gibson, T. E.; and Parfitt, J. W., 1972, *Research Vet. Sc.*, v. 13 (6), 529-535
Trichostrongylus colubriformis, lambs, increased ability to develop resistance with increasing age, importance of grazing management designed to reduce hazard of infection for young animals

Immunity

- Gingrich, R. E., 1973, *J. Med. Entom.*, v. 10 (5), 482-487
Hypoderma lineatum, effects of host diet and immunosuppressant treatments (rabbit anti-mouse lymphocyte serum and whole-body irradiation) on survival and growth of larvae and on susceptibility of *Mus musculus* to infestation

Immunity

- Gingrich, R. E.; and Barrett, C. C., 1976, *J. Med. Entom.*, v. 13 (1), 61-65
Cuterebra fontinella, host specificity, acquisition of resistance by *Peromyscus leucopus*, effects of host sex on susceptibility to infection, localization of resistance, infestation by injection of larvae, interruption of infestation, effects of dose on resistance

Immunity

- Gladney, W. J.; et al., 1973, *J. Med. Entom.*, v. 10 (2), 123-130
Boophilus annulatus, Holstein cattle (exper.), high protein and fat diet vs. low protein and fat diet, effect on host resistance, hematocrit, and serum cholesterol values, and on tick development and numbers; host resistance primarily physiological rather than behavioral (self grooming)

Immunity

- Goble, F. C., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 597-689
Trypanosoma cruzi, immunology, review

Immunity

- Goedbloed, E.; et al., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (1), 31-43
Trypanosoma brucei subgroup, antigenic types of 38 strains isolated from more than 73,000 *Glossina* spp. from 4 geographically separate areas, intra- and inter-area and intra- and inter-strain comparisons, direct agglutination test used primarily: Uganda and Kenya, East Africa

Immunity

- Goetz, P., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 191
defense mechanisms in invertebrates against parasites, brief review

Immunity

- Goetz, P.; Roettgen, I.; and Lingg, W., 1977, *Ann. Parasitol.*, v. 52 (1), 95-97
humoral encapsulation as a defense reaction in Diptera

Immunity

- Goldring, O. L.; et al., 1976, *Clin. and Exper. Immunol.*, v. 26 (1), 181-187
Schistosoma mansoni schistosomula cultured in human blood of various specificities, acquisition of A, B, H, and Lewis^x antigens at parasite surface, Rhesus, M N S, and Duffy antigens could not be detected

Immunity

- Goldring, O. L.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 144-148
Schistosoma mansoni, detection of mouse host antigens and parasite antigens on surface of schistosome using indirect fluorescent antibody technique, suggests that presence of host antigens obviates binding of anti-schistosome antibody in sufficient quantity or in correct pattern to cause surface damage of schistosome

Immunity

- Golenser, J.; et al., 1974, *J. Protozool.*, v. 21 (3), 464 [Abstract]
Plasmodium berghei-infected rats, dynamics of response to sheep erythrocytes

Immunity

- Golenser, J.; et al., 1977, *Clin. and Exper. Immunol.*, v. 29 (1), 43-51
Plasmodium berghei, rats immunized with sporozoites or infected blood, indirect fluorescent antibody tests, crossreactivity using as antigen sporozoites, exoerythrocytic forms, or blood schizonts, protection or lack of protection against challenge with sporozoites or infected blood

Immunity

- Golenser, J.; et al., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 204-205 [Abstract]
Plasmodium berghei-infected rats (exper.), estimation of density of exo-erythrocytic (EEF) forms at different stages of infection and comparison with normal controls indicates that blood stage interferes with the development of EEF in liver parenchymal cells of infected animals

Immunity

- Golenser, J.; Shmuel, Z.; and Spira, D. T., 1975, *J. Protozool.*, v. 22 (3), 71A [Abstract]
Plasmodium berghei-infected rats injected with sheep erythrocytes, numbers of plaque-forming cells in spleen and popliteal lymph nodes during course of infection

Immunity

- Golenser, J.; Spira, D. T.; and Zuckerman, A., 1973, *J. Protozool.*, v. 20 (4), 531-532
Plasmodium berghei, splenocytes from infected rats, spontaneous incorporation of ³H-thymidine in vitro, unresponsiveness to phytohemagglutinin stimulation

Immunity

- Golenser, J.; Spira, D. T.; and Zuckerman, A., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 251-258
Plasmodium berghei berghei in rats (exper.) injected with hyperimmune serum (HIS), site, mode and time of action of neutralizing anti-plasmodial antibody, degree of suppression of parasitemia proportional to dose of HIS and mortality rate inversely proportional

Immunity

- Golenser, J.; Verhave, J. P.; and Meuwissen, J. H. E. T., 1977, *Parasitology*, v. 75 (2), xxxi-xxxii [Abstract]
Plasmodium berghei, specificity of antibody responses to different life-cycle stages, results indicate different antigenic determinants but also certain common antigens

Immunity

- Goodwin, L. G.; and Guy, M. W., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 156 [Abstract]
 T[rypanosoma] *brucei*-infected rabbits, connective tissue pathology, antitrypanosomal antibody penetration of tissue fluid

Immunity

- Goodwin, L. G.; and Tierney, E. D., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 21 [Demonstration]
 trypanosome suspension (*Trypanosoma brucei*), titration technique on plastic microtest plates (Nunclon) to determine trypanocidal drug activity in body fluids and to detect contribution of humoral immunity to chemotherapeutic activity

Immunity

- Goodwin, L. G.; and Tierney, E. D., 1977, *Parasitology*, v. 74 (1), 33-45
Trypanosoma brucei, *T. evansi*, bioassay technique for titration of trypanocidal activity in microtest plates using very small samples, use to study activity of plasma and tissue fluid from normal and infected rabbits treated with curative drugs, activity higher in samples from infected rabbits due to participation of immune response

Immunity

- Goose, J., 1976, *Parasitology*, v. 73 (2), xxvii-xxviii [Abstract]
Fasciola hepatica, findings relevant to persistence of flukes in rats resistant to re-infection

Immunity

- Goose, J., 1977, *Parasitology*, v. 75 (2), xxxv [Abstract]
Fasciola hepatica-infected rats, depressed immune response to sheep red blood cells, greater numbers of peritoneal macrophages and increased phagocytosis, increased resistance to infection with *Trypanosoma congolense* and *Nippostrongylus brasiliensis* not serum-transferable, concluded that *Fasciola hepatica* stimulates certain T-cell populations as well as reticulo-endothelial system

Immunity

- Gougerot, M. A.; et al., 1975, *Bull. Soc. Path. Exot.*, v. 68 (3), 297-303
 elevated IgE, useful indicator of possible human parasitism in absence of allergic type conditions

Immunity

- Gravely, S. M.; Hamburger, J.; and Kreier, J. P., 1976, *Infect. and Immun.*, v. 14 (1), 178-183
Plasmodium berghei, young vs. adult rats, T and B cell population changes in relation to mechanism of age-related immunity

Immunity

- Gravely, S. M.; and Kreier, J. P., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 198-206
Babesia microti, removal from infected hamster erythrocytes by continuous-flow ultrasonication, freed parasites collected by differential centrifugation, effectiveness of this system of lysis evaluated by electron microscopy and parasites evaluated serologically by complement-fixation testing, cross-reactions with sera from *Plasmodium berghei*-infected hamsters may be due to erythrocyte contamination

Immunity

Gravely, S. M.; and Kreier, J. P., 1976, *Infect. and Immun.*, v. 14 (1), 184-190
Plasmodium berghei, rats, adoptive transfer experiments with T and B lymphocytes alone or in combination, results argue strongly for immunity transferrable by antibody-producing cells and not by T cells acting in classical cell-mediated immune responses

Immunity

Graves, I. L.; Adams, W. H.; and Pyakural, S., 1975, *Am. J. Vet. Research*, v. 36 (6), 843-845
Babesia bigemina, *Bos grunniens* moved from high to low altitude and challenged with influenza A viruses, hemolytic anemia, possible explanations, death due to *Fasciola hepatica* and *F. gigantica*, incidental finding of *Bunostomum* sp., *Trichuris* sp., *Neoscaris vitulorum*, *Dictyocaulus* sp., coccidia, some reasons for poor survival of yaks at low altitude: Nepal

Immunity

Gravina-Sanvitale, G.; and Gravina, E., 1975, *Minerva Pediat.*, v. 27 (10), 602-606
 toxoplasmosis in newborn infants, comparisons of immunoglobulin levels with those of normal infants

Immunity

Gray, J. S., 1976, *Parasitology*, v. 73 (2), 189-204
Raillietina cesticiillus, chickens, intestinal cellular response and antibody level in primary and secondary infections

Immunity

Greenberg, Z.; and Wertheim, G., 1973, *Immunology*, v. 24 (3), 531-543
Nippostrongylus brasiliensis, rats, cellular responses to intraperitoneal inoculation of larvae, sequence of cell-types adhering to larvae and subsequent formation of granulomas around cell-coated larvae, initial neutrophilia in rats infected with L2 or L3 larvae, pronounced eosinophilia seen only in rats inoculated with L3 larvae

Immunity

Greenwood, B. M.; Oduloju, A. J.; and Stratton, D., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 408-410
Plasmodium falciparum, lymphocyte sub-population changes in children with acute malaria, transient increase in K cell activity suggests that K cells have role in protective response to infection

Immunity

Greenwood, B. M.; Whittle, H. C.; and Molyneux D. H., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 846-850
Trypanosoma gambiense, human, immunosuppression, cell-mediated and humoral immunity both impaired

Immunity

Grove, D. I.; Burston, T. O.; and Forbes, I. J., 1974, *Clin. and Exper. Immunol.*, v. 18 (4), 565-569
 hookworm-infested population, high serum IgE levels, serum IgE and blood eosinophil levels fell after treatment with pyrantel: Papua New Guinea

Immunity

Grove, D. I.; Hamburger, J.; and Warren, K. S., 1977, *J. Infect. Dis.*, v. 136 (4), 562-570
Trichinella spiralis, kinetics of infection in mice (exper.), immunologic responses, resistance to reinfections, pathology

Immunity

Grove, D. I.; and Warren, K. S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (4), 449-453
Trichinella spiralis, mice, niridazole suppresses cell-mediated reactions but leaves humoral antibody formation relatively intact

Immunity

Gysin, J.; and Le Corroller, Y., 1975, *Compt. Rend. Acad. Sc., Paris*, v. 281, s. D, Sc. Nat. (17), Oct. 27, pp. 1283-1285
Schistosoma mansoni-infected *Biomphalaria glabrata*, and non-infected snails, antigenic structure of hemolymph and tissue extract, immunoelectrophoresis

Immunity

Gysin, J.; and Le Corroller, Y., 1976, *J. Parasitol.*, v. 62 (5), 697
Schistosoma mansoni, total absence of adult parasites in mice previously subjected to thermal stress, cercariae did penetrate but it appears that inflammatory reaction blocked development

Immunity

Hamburger, J.; and Kreier, J. P., 1976, *Exper. Parasitol.*, v. 40 (2), 158-169
Plasmodium berghei free parasites (but not parasites in erythrocytes) become coated with antibodies after incubation in recovered rat serum (as demonstrated by fluorescent antibody technique), this immune serum did not protect mice against inoculation of free parasites but did protect rats partially or completely, phagocytes ingested parasites more readily in presence of immune vs. normal serum

Immunity

Hamaoka, T.; et al., 1974, *J. Immunol.*, v. 113 (3), 958-973
Ascaris suum, mice, establishment of parameters for generation of helper T cell function regulating primary and secondary responses of IgE and IgG B lymphocytes

Immunity

Hamburger, J.; and Kreier, J. P., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 385-390
Plasmodium berghei berghei in immune serum, changes in dilution demonstrate interaction between protective antibodies and malaria parasites, probable involvement of low avidity antibodies that make malaria parasite-protective antibody interaction readily reversible

Immunity

Handman, E.; Spira, D. T.; and Zuckerman, A., 1977, *J. Protozool.*, v. 24 (2), Suppl., 21A [Abstract]
Leishmania tropica amastigotes, growth in macrophages from normal and immune mice

Immunity

Hanna, R. E. B.; and Jura, W., 1977, Research Vet. Sc., v. 22 (3), 339-342
Fasciola gigantica, calves (exper.), antibody response, indirect fluorescent antibody technique, results suggest that the surface glycocalyx of newly excysted flukes provides one of the earliest antigenic stimuli for host response

Immunity

Harinasuta, T.; Gilles, H. M.; and Sandosham, A. A. [Editors], 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (4), 641-678
 human malaria in southeast Asia, scientific group meeting with discussion on: epidemiology, clinical features, pathophysiology, genetic factors, immunology, diagnosis, chemotherapy, control measures

Immunity

Harland, P. S. E. G.; Frood, J. D. L.; and Parkin, J. M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 261-262
 human *Plasmodium falciparum*, prophylactic monthly doses of pyrimethamine given to children in endemic area did not prevent all episodes of severe malaria but were associated with lower antibody titers (possibly resulting from chloroquine therapy prescribed for febrile illnesses): Uganda

Immunity

Harness, E.; Doy, T. G.; and Hughes, D. L., 1976, Parasitology, v. 73 (2), xxv-xxvi [Abstract]
Fasciola hepatica, mice, sensitization and challenge, results confirm that no protective immune mechanism was operating in intestine or peritoneal cavity

Immunity

Harness, E.; Doy, T. G.; and Hughes, D. L., 1977, Internat. J. Parasitol., v. 7 (1), 51-54
Fasciola hepatica, early migratory behaviour in sensitized mice, more rapid migration to liver accounts for lower fluke recovery from peritoneal cavity as compared to non-sensitized controls; cellular changes in intestinal wall of normal and sensitized mice following challenge infection with normal metacercariae

Immunity

Harness, E.; Doy, T. G.; and Hughes, D. L., 1977, Parasitology, v. 75 (2), v-vi [Abstract]
Fasciola hepatica, mice, number of flukes recovered from liver in primary and challenge infections, effect of time of challenge; dose size necessary to ensure sufficient number of mice with adult flukes in bile ducts, no advantage to using more than 2 metacercariae but when this number is used as challenge infection in assessing immunity it must be remembered that approximately 1/3 of the mice will fail to become infected

Immunity

Harness, E.; Hughes, D. L.; and Doy, T. G., 1976, Internat. J. Parasitol., v. 6 (1), 15-17
Fasciola hepatica, mice, demonstration of pre-hepatic immune response possibly operating in intestinal wall or gut mucus

Immunity

Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 427-430
Trypanosoma rhodesiense (6 clones of stabilate), polymorphic trypanosomes (12 clones of stabilate), tests for resistance to human plasma, indications for fundamental differences of genetic material

Immunity

Hayes, T. J.; Bailer, J.; and Mitrovic, M., 1975, Research Vet. Sc., v. 19 (1), 86-87
Fasciola hepatica, significant resistance to second infection in both splenectomized and sham-operated rats, presence of spleen not necessary for development of protective immunity to superinfection in rats

Immunity

Hayes, T. J.; and Mitrovic, M., 1977, J. Parasitol., v. 63 (3), 584-587
Fasciola hepatica, rats, results indicate that protective immunity is expressed within first 24 hours after challenge, dexamethasone abrogated protective effect of previous infection

Immunity

Henney, R. W.; MacLean, J. M.; and Mulligan, W., 1973, Isotopes and Radiation Parasitol. III, 3-10
Nippostrongylus brasiliensis, decline in uptake of ³²P-phosphate and ⁷⁵Se-selenomethionine from host's tissue fluids from day 7 of infection onward, recovery upon transfer to fresh rat, results imply significant interference with parasites' metabolism several days before expulsion occurs

Immunity

Henry, L.; and Beverley, J. K. A., 1976, Brit. J. Exper. Path., v. 57 (3), 274-280
Toxoplasma gondii, mice, age and sex differences in response of lymph node post-capillary venules, possible role of female sex hormones on vascular endothelium in modifying development of immune response

Immunity

Henry, L.; and Beverley, J. K. A., 1976, Virchows Arch., B Cell Path., v. 20 (1), 55-69
Toxoplasma gondii, mice, response of reticuloendothelial system to infection, changes in lymph nodes, spleen, and thymus induced by low virulence strain are indicative of immunological response but high virulence strain apparently has direct toxic effect which precludes adequate immunological response thereby allowing unrestricted proliferation and eventual host death

Immunity

Henry, L.; and Beverley, J. K. A., 1977, *J. Comp. Path.*, v. 87 (1), 97-102

Toxoplasma gondii, rats, guinea pigs (both exper.), differences in host response to infection (serology, isolation of organism, histology)

Immunity

Hepler, D. I.; and Lueker, D. C., 1976, *Abst. Ann. Meet. Am. Soc. Microbiol.*, 76

Nematospiroides dubius, mice (exper.), cellular and humoral response after oral immunization

Immunity

Herbert, I. V.; and Oberg, C., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 199-211

Taenia solium, incidence in man in Chile, pigs (exper.), immunological responses, in vivo and in vitro manifestations, skin testing, passive cutaneous anaphylaxis, indirect haemagglutination, attempt to correlate with autopsy findings for possible serologic diagnosis, some results with *T. hydatigena* also

Immunity

Herd, R. P., 1976, *Parasitology*, v. 72 (3), 325-334

Echinococcus granulosus protoscoleces and adults, effects of complement and/or specific antibodies in vitro

Immunity

Herd, R. P., 1977, *Internat. J. Parasitol.*, v. 7 (2), 135-138

Echinococcus granulosus, dogs, immunization studies using arrested development and inhibition of egg production as criteria, indications that certain dogs have natural resistance which is not mediated by specific antibodies or sensitized lymphocytes to tapeworm secretory antigens

Immunity

Herlich, H.; and Douvres, F. W., 1977, *J. Dairy Sc.*, v. 60 (2), 283-288

parasitism and calfhood diseases, immunity, immunization, pathology, review

Immunity

Herman, R., 1977, *Exper. Parasitol.*, v. 42 (1), 211-220

Plasmodium chabaudi, physical interaction in vitro between splenic lymphocytes from immune mice and syngeneic peritoneal macrophages which had phagocytized and processed infected red cells, specific antigen-mediated binding of sensitized lymphocytes to macrophage membranes was demonstrated, interaction possible expression of role for T cells in immunity in rodent malaria

Immunity

Herman, R.; and Farrell, J. P., 1977, *J. Protozool.*, v. 24 (3), 429-436

Leishmania donovani, mice, cyclophosphamide suppresses acquired immunity if given when infection becomes chronic, from experiments using such cyclophosphamide-immunosuppressed mice it appears that neither specific humoral anti-leishmanial antibody nor 'immune' macrophages per se is directly responsible for the acquired immunity

Immunity

Hewetson, R. W.; and Lewis, I. J., 1976, *J. Parasitol.*, v. 62 (2), 307-311

Boophilus microplus, cattle, development of resistance, comparison of effect of two regimens of infestation (small doses daily vs. large doses intermittently) on total tick drop and on repeatability of rankings made on animals for tick resistance

Immunity

Hibbs, J. B., jr., 1973, *Science* (4088), v. 180, 868-870

activated macrophages with increased non-specific microbicidal activity for an intracellular pathogen (*Toxoplasma gondii*) and non-specific cytotoxic activity for non-contact inhibited cells do not destroy cells with normal surfaces

Immunity

Hibbs, J. B., jr., 1974, *Science* (4135), v. 184, 468-471

heterocytolysis by macrophages activated by chronic infection with BCG or *Toxoplasma gondii*, lysosome exocytosis into tumor cells

Immunity

Hibbs, J. B.; et al., 1977, *Science* (4300), v. 197, 279-282

activated macrophages from mice with chronic BCG or *Toxoplasma gondii* infections, modulation of tumor killing potential by factors in local environment

Immunity

Hindsbo, O., 1973, *Norwegian J. Zool.*, v. 21 (4), 328 [Abstract]

anterior migration of *Nippostrongylus brasiliensis* in small intestine of rats during primary and secondary infections correlated to self-cure; experiments with prednisolone-treated rats showed that anterior migration is independent of worm expulsion

Immunity

Hinz, E., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 198-206

Echinococcus multilocularis, mice, intraperitoneally vs. subcutaneously infected, antibody titers correlated to parasite load, to number and size of cysts, and to number of protoscolices

Immunity

Hobbs, K. M.; Sole, E.; and Bettelheim, K. A., 1977, *Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A*, v. 239 (3), 409-413

Toxoplasma gondii, humans, IgM is immunoglobulin class responsible for bipolar staining of trophozoites in fluorescent antibody test

Immunity

- Hockmeyer, W. T.; et al., 1976, Abst. Ann. Meet. Am. Soc. Microbiol., 86
Plasmodium berghei, mice, T-cell dependency of sporozoite antigens in inducing protection against subsequent sporozoite challenge

Immunity

- Hof, H.; et al., 1976, Ann. Microbiol., v. 127 B (4), 503-507
Toxoplasma gondii, nude mice, neither more susceptible nor more resistant to primary infection with virulent cells; treatment with sulfadiazine protected against acute fatal disease; only normal mice survived after treatment withdrawn; high amounts of antibodies in normal mice, none in nude mice

Immunity

- Hoff, R. L.; et al., 1977, J. Parasitol., v. 63 (6), 1121-1124
Toxoplasma gondii, forms developed in culture characterized by their oral infectivity for cats and mice and by resulting prepatent periods in cats, investigation of role of antibody in formation of bradyzoites

Immunity

- Hogan, J. C., jr.; and Patton, C. L., 1976, J. Protozool., v. 23 (2), 205-215
Trypanosoma brucei bloodstream forms from intact or lethally irradiated rats, freeze-cleaved and thin sectioned preparations, variation in intramembrane components, immunological implications

Immunity

- Hommel, M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 268 [Demonstration]
Leishmania donovani, infection of ascitic tumor cells in mice (exper.), possible usefulness in study of host-parasite relationships at cellular level, little immunosuppressive effect of tumor on parasitemia

Immunity

- Honigberg, B. M., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 469-550
 immunology of trichomonads, review

Immunity

- Hopkins, C. A.; Goodall, R. I.; and Zajac, A., 1977, Parasitology, v. 74 (2), 175-183
Hymenolepis diminuta, *H. microstoma*, mice, effect of primary immunizing infection with one species on growth and survival of secondary infection with heterologous species; data on longevity and pattern of worm loss in primary *H. microstoma* infections in mice; results show that *H. microstoma* in low level infections is able to evade host immune response, heavier worm burden initiates worm loss which may be physiologically ('crowding effect') rather than immunologically mediated

Immunity

- Hopkins, C. A.; and Law, M., 1976, Parasitology, v. 73 (2), xxix [Abstract]
Hymenolepis diminuta, surgical transplantation into irradiated and immunized mice vs. naive mice

Immunity

- Hopkins, C. A.; and Zajac, A., 1976, Parasitology, v. 73 (1), 73-81
Hymenolepis diminuta, transplanted into various classes of mice (naive mice receiving cortisone, naive mice, irradiated naive mice, immunized mice, irradiated immunized mice), differences in time course of rejection response, surgical stress as a possible source of error

Immunity

- Hosier, D. W.; and Durning, J. P., 1975, J. Parasitol., v. 61 (3), 564-566
Nematospiroides dubius, male vs. female ICR mice challenged with 200 larvae after receiving one stimulating infection of 400 larvae, effect of gonadectomy or supplemental sex hormone treatment on worm burden

Immunity

- Houba, V.; Faulk, W. P.; and Matola, Y. G., 1974, Clin. and Exper. Immunol., v. 18 (1), 89-93
 heterophilic antibodies to sheep erythrocytes identified in sera from both malarious and non-malarious subjects in Tanzania, in patients with sickle-cell anemia but not exposed to malaria (U.S.A.), and in rhesus monkeys infected with *Plasmodium knowlesi* and *P. cynomolgi bastianellii*, observations do not support concept that heterophilic antibodies are integrally associated with host resistance to malaria

Immunity

- Howard, R. J., 1976, Parasitology, v. 72 (3), 317-323
Hymenolepis microstoma, mice infected with 1, 5, or 10 cysticercoids, infections terminated after 5, 16, or 30 days, challenge with 6 cysticercoids, growth of worms in secondary infections decreased as either intensity or duration of primary infections increased

Immunity

- Howard, R. J., 1976, Parasitology, v. 73 (2), xxx [Abstract]
Hymenolepis microstoma transplanted into immune mice, young worms migrating in small intestine to bile duct were susceptible to immune response but older worms established in bile duct were not, indicates importance of bile duct for adaptation to host

Immunity

- Howard, R. J., 1977, Parasitology, v. 75 (2), 241-249
Hymenolepis microstoma, change in worm susceptibility to host's resistance with increasing age of parasite suggested by experiments with worm growth in primary and secondary infection, with worms transplanted into naive or resistant mice, and with cortisone treatment of hosts

Immunity

Howell, M. J.; Sandeman, R. M.; and Rajasekariah, G. R., 1977, *Internat. J. Parasitol.*, v. 7 (5), 367-371

Fasciola hepatica, infection schedules for production of serum in rats which passively protects naive recipients against infection, in vitro effects of this serum on metacercariae

Immunity

Howells, R. E.; and Chiari, C. A., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (4), 435-448

Trypanosoma cruzi, 2 strains, investigation of differences between slender and stout trypomastigotes, infectivity of different forms to mice, relationship between inoculum size, length of pre-patent period, and course of parasitemia, influence of whole-body X-irradiation and splenectomy of host on course of infection

Immunity

Hsu, S. Y. L.; et al., 1975, *J. Reticuloendothel. Soc.*, v. 18 (3), 167-185

Schistosoma japonicum, rhesus monkeys, mechanism of immunity studied by histopathologic examinations of skin lesions elicited during immunizations and challenge with cercariae, role of cell-mediated immunity, significance of time of appearance of eosinophils, role of synergistic and cooperative functions of T and B cells

Immunity

Hsu, S. Y. L.; et al., 1976, *J. Parasitol.*, v. 62 (6), 914-926

Schistosoma mansoni, *S. japonicum*, rhesus monkeys immunized with highly X-irradiated cercariae, lethal antibody in sera, in vitro effect on schistosomula (perischistosomular precipitate, perischistosomular envelope)

Immunity

Hsu, S. Y. L.; et al., 1977, *J. Reticuloendothel. Soc.*, v. 21 (3), 153-162

Schistosoma mansoni, *S. japonicum*, in vitro schistosomulicidal effect of different kinds of leukocytes, both normal and sensitized eosinophils and neutrophils increased schistosomulicidal effect of either noninactivated or inactivated immune serum while lymphocytes did not, sensitized granulocytes manifested schistosomulicidal effect even in normal serum but there was no effect when medium contained normal cells and normal serum

Immunity

Hsü, S. Y. L.; et al., 1977, *Exper. Parasitol.*, v. 43 (1), 189-195

Schistosoma japonicum-immunized *Macaca mulatta*, exposure to highly irradiated cercariae as a test to determine prechallenge state of immunity by studying histopathological lesions in skin, test appears to be harmless to hosts

Immunity

Hudson, K. M.; et al., 1976, *Nature* (5583), v. 264, 256-258

Trypanosoma brucei brucei, mice, link between immunodepression, high IgM levels and evasion of immune response

Immunity

Hudson, K. M.; and Byner, C., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 265 [Abstract]

Trypanosoma brucei brucei, mice, changes in lymphoid organ architecture

Immunity

Hughes, D. L.; Anderson, J. C.; and Harness, E., 1976, *Exper. Parasitol.*, v. 40 (3), 355-362

Fasciola hepatica, rats sensitized either by subcutaneous implantation of adult flukes or by normal oral infection, challenge by subcutaneous vs. intraperitoneal route, comparison of responses

Immunity

Hughes, D. L.; Harness, E.; and Doy, T. G., 1976, *Research Vet. Sc.*, v. 20 (2), 207-211

Fasciola hepatica, rats of PVG vs. SD strains, comparison of establishment and duration of infection and development of acquired resistance

Immunity

Hughes, D. L.; Harness, E.; and Doy, T. G., 1977, *Nature*, London (5611), v. 267, 517-518

Fasciola hepatica, rats with long-standing infection have lost ability to kill transferred adult flukes, however if these same rats are reinfected with metacercariae their ability to kill the challenge flukes is restored

Immunity

Hughes, D. L.; Harness, E.; and Doy, T. G., 1977, *Parasitology*, v. 75 (2), x-xi [Abstract]

Fasciola spp., ability of immunized rats to kill adult flukes

Immunity

Hussein, H. S., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (3), 249-253

Babesia hyalomysci, *B. microti*, mice (exper.), recovery from primary infection of *B. microti* results in sterile immunity possibly for lifetime, recovery from *B. hyalomysci* results in premunity with infection at subpatent levels with spontaneous relapses, cross-protection occurs between the two species

Immunity

Hussein, M. F.; and Amin, M. B. A., 1973, *Isotopes and Radiation Parasitol.* III, 91-100

Schistosoma bovis, *S. mattheei*, domestic animals, pathology, immunology, review

Immunity

Hustead, S. T.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 314-321

Taenia taeniaeformis, *T. crassiceps*, *Echinococcus granulosus*, permeability studies: detection of host immunoglobulins of several different classes within bladder fluids, uptake of intact heterologous and homologous host proteins in vitro and in vivo

Immunity

- Hustead, S. T.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 322-326
Taenia taeniaeformis, *T. crassiceps*, larvae, increased rate of absorption of certain macromolecules in presence of antibody and complement but substances associated with larvae in vitro can deplete functional complement levels in surrounding medium leading to restoration of normal permeability control

Immunity

- Hutt, M. S. R.; and Voller, A., 1976, *J. Trop. Med. and Hyg.*, v. 79 (5), 106-110
 histopathology of hepatic changes in exper. Aotus monkeys and possible role of liver in immunologic response to malaria

Immunity

- Huxtable, C. R.; and Rothwell, T. L. W., 1975, *Austral. J. Exper. Biol. and Med. Sc.*, v. 53 (6), 437-445
Trichostrongylus colubriformis, guinea pig small intestinal mucosa, basophils and eosinophils at site of infection, ultrastructural changes as compared with bone marrow and buffy coat cells

Immunity

- van den Ingh, T., 1977, *Tijdschr. Diergeneesk.*, v. 102 (20), 1210-1214 [Abstract of thesis]
Trypanosoma brucei brucei, rabbit, 3 distinguishable stages during course of infection, immunological response, pathomorphological changes

Immunity

- Invert. Immun. (Maramorosch and Shope), 365 pp.
 workshop on invertebrate defense mechanisms

Immunity

- Isaak, D. D.; Jacobson, R. H.; and Reed, N. D., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 55 (1-6), 504-513
Hymenolepis nana, kinetics of infection in normal vs. thymus-deficient mice, concluded that worm expulsion and reinfection immunity are thymus dependent and that tissue phase of infection is of prime importance in stimulating protective immune response

Immunity

- Ishizaka, K.; and Kishimoto, T., 1972, *J. Immunol.*, v. 109 (1), 65-73
Ascaris suum, rabbits, formation of reaginic antibody

Immunity

- Ishizaka, T.; et al., 1975, *J. Immunol.*, v. 115 (4), 1078-1083
Nippostrongylus brasiliensis-infected rats, increase in serum IgE, most receptors for IgE on mast cells of infected animals are occupied by their own IgE, no differences in mast cells of normal vs. infected rats with respect to histamine content or intracellular levels of cyclic nucleotides

Immunity

- Ishizaka, T.; et al., 1976, *J. Allergy and Clin. Immunol.*, v. 58 (4), 523-538
Nippostrongylus brasiliensis-infected rats, nature of IgE synthesis, role of T and B cells, characteristic properties of T cells primed by infection

Immunity

- Ishizaka, T.; Urban, J. F., jr.; and Ishizaka, K., 1976, *Cellular Immunol.*, v. 22 (2), 248-261
Nippostrongylus brasiliensis, rats, kinetics of IgE synthesis, selective proliferation of IgE-bearing lymphocytes and differentiation of these to IgE-forming cells

Immunity

- Ishizaki, T., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 301-305
Schistosoma japonicum, humans, total IgE levels and specific IgE levels, correlation with skin test reaction, effect of niridazole treatment

Immunity

- Ito, A., 1977, *Internat. J. Parasitol.*, v. 7 (1), 67-71
Hymenolepis nana, mice, protective immunity transferred with serum taken from actively immunized mice, major effect of immune serum was damaging hatched oncospheres in both intestinal lumen and villi within 1 day post infection

Immunity

- Ito, K.; et al., 1976, *Japan. J. Exper. Med.*, v. 46 (1), 79-85
 levels of immunoglobulin E antibodies to *Ascaris* using *Ascaris suum* antigens higher in Papua New Guineans than in Japanese subjects

Immunity

- Iwata, A.; et al., 1976, *Nippon Zyuisei-Kai Zassi (J. Japan. Vet. Med. Ass.)*, v. 29 (12), 673-675
 piroplasmiasis, Holstein cows, time interval between virulent blood inoculation and acquisition of immunity

Immunity

- Jackson, T.F.H.G., 1976, *J. Helminth.*, v. 50 (1), 45-47
Bulinus (Physopsis) africanus antigens shown to be associated with cercarial glycolyx of *Schistosoma haematobium* using immunofluorescence and Cercarienhuellen reaction, possibility that snail antigen might sensitise definitive host and induce resistance to further invasion by cercariae

Immunity

Jackson, T. F. H. G.; and De Moor, P. P., 1976, *J. Helminth.*, v. 50 (2), 59-63

Schistosoma haematobium, human, hemagglutination tests using *Bulinus africanus* extract as antigen, frequency and titres of anti-snail antibodies significantly greater in infected than in non-infected individuals and in populations from endemic vs. non-endemic areas

Immunity

Jacobson, R. H.; and Reed, N. D., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 160-168

Nippostrongylus brasiliensis, mice, thymus-dependent lymphocytes are required to elicit both humoral and cell-mediated steps of worm expulsion

Immunity

Jacobson, R. H.; Reed, N. D.; and Manning, D. D., *Immunology*, v. 32 (6), 867-874

Nippostrongylus brasiliensis, mice experiencing immunosuppressive effects of anti- μ antibodies, worm expulsion unaffected even though antibody production potential had been eliminated, suggests that anti-worm antibodies may not be requisite in mechanism of expulsion

Immunity

Jakobiec, F. A.; Gess, L.; and Zimmerman, L. E., 1977, *Arch. Ophth.*, Chicago, v. 95 (2), 278-280

Schistosoma haematobium causing granulomatous dacryoadenitis in youth, localization at site of earlier trauma, possible immunologic implications, niridazole therapy: Sierra Leone

Immunity

James, C.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 18 [Demonstration]

Schistosoma haematobium in baboon (exper.), challenge infection with cercariae showed immune reaction with egg output suppression and recovery of very small to large male and female worms

Immunity

James, E. R.; and Denham, D. A., 1975, *J. Helminth.*, v. 49 (1), 43-47

mice immunized to intestinal stage of *Trichinella spiralis* by drug-abbreviated infections, significant reduction in muscle larvae which encysted following normal complete challenge infection, no significant protection against challenge with parenteral stages, stage-specificity of immune response

Immunity

James, E. R.; Moloney, A.; and Denham, D. A., 1977, *J. Parasitol.*, v. 63 (4), 720-723

Trichinella spiralis, mice, immunogenicity of parenteral phase confirmed, resistance stimulated by this phase does not affect the intestinal phase

Immunity

Jansen, J., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 316-317 [Abstract]

trichostrongylosis, sheep, questionable correlation between breed susceptibility to infections and hemoglobin types of breeds

Immunity

Jarra, W.; et al., 1977, *J. Protozool.*, v. 24 (4), 40A [Abstract]

Plasmodium berghei, in vitro maintenance, multiplication and incorporation of radio-labelled hypoxanthine and isoleucine, possible application to malaria immunology

Immunity

Jarrett, E. E. E., 1972, *Immunology*, v. 22 (6), 1099-1101

potentiation of reaginic (IgE) antibody to ovalbumin by infection of rats with *Fasciola hepatica* and repotentiation by subsequent infection with *Nippostrongylus brasiliensis*

Immunity

Jarrett, E. E. E.; Haig, D. M.; and Bazin, H., 1976, *Clin. and Exper. Immunol.*, v. 24 (2), 346-351

Nippostrongylus brasiliensis, rats, relationship in time between elevation of total serum IgE, the parasite-specific IgE response and the potentiated IgE response to unrelated antigen

Immunity

Jarrett, E. E. E.; and Stewart, D. C., 1973, *Immunology*, v. 24 (1), 37-45

Nippostrongylus brasiliensis, rats, no direct quantitative relationship between size of skin test reactions and level of specific circulating reaginic antibody

Immunity

Jatinandana, V.; and Savanat, T., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 40-51

Entamoeba histolytica, antigenicity of sub-cellular components determined by two different methods (chemical extraction of antigens from sub-cellular fractions and antibody activity of reference sera after absorption with sub-cellular organelles)

Immunity

Jayawardena, A. N.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 427 [Demonstration]

Plasmodium berghei yoelii, *P. b. berghei* in CBA mice, relationship between T-cell activity and pathology of parasitic infection

Immunity

Jayawardena, A. N.; et al., 1977, *Immunology*, v. 32 (6), 849-859

Plasmodium berghei yoelii (*P. yoelii*), CBA mice, immunological response, general characteristics and effects of T-cell deprivation and reconstitution with thymus grafts

Immunity

Jenkins, S. N., 1977, *Parasitology*, v. 75 (2), xiv [Abstract]

Trichuris muris, mice, cell transfer studies highlight complexity of interaction of humoral and cellular immune response

Immunity

Jeska, E. L., 1973, *J. Reticuloendothel. Soc.*, v. 14 (2), 146-157

Ascaris suum infective juveniles, cell adherence reactions of mouse peritoneal exudate system in vitro

Immunity

Jones, I. G.; Lowenthal, M. N.; and Hutt, M. S. R., 1975, *Med. J. Australia*, v. 2 (16), 645-647
 case reports of human fulminant tropical splenomegaly syndrome, possible abnormal immunologic response to malaria, responds generally to prolonged anti-malarial therapy: Zambia

Immunity

Jones, T. C., 1974, *J. Reticuloendothel. Soc.*, v. 15 (5), 439-450
 interactions of intracellular parasites (including protozoa with special emphasis on *Toxoplasma gondii*) with macrophages, review: endocytosis, the entry process; survival within vacuolar system; effects of immunity on intracellular parasitism

Immunity

Jones, T. C.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 187-193
Toxoplasma gondii, lymphocyte-macrophage interaction during control of intracellular parasitism, workshop report

Immunity

Jones, T. C.; and Len, L., 1976, *Infect. and Immun.*, v. 14 (4), 1011-1013
Toxoplasma gondii, reduced pinocytotic rates of macrophages from immunized mice and macrophages stimulated to inhibit *Toxoplasma* in vitro

Immunity

Jordan, A. M., 1976, *Vet. Parasitol.*, v. 2 (1), 143-152
Glossina spp. as vectors of trypanosomes, factors affecting infection rates in tsetse flies, possible immune responses, effects of vector on characteristics of strains of trypanosomes, review

Immunity

Jordan, H. B., 1975, *J. Protozool.*, v. 22 (2), 241-244
Plasmodium floridense, differential course of infection in *Anolis carolinensis* vs. *Sceloporus undulatus*, duration and intensity of parasitemia, % frequency of merozoite means during periods of acute rise and decline, natural and acquired immunity

Immunity

Jordan, P.; Cook, J. A.; and Davis, A., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 340-341 [Letter]
Schistosoma haematobium, discussion of immunity versus concomitant immunity in human infections

Immunity

Jorgensen, R. J.; et al., 1975, *Vet. Parasitol.*, v. 1 (2), 151-157
Ascaris suum, piglets (exper.), failure to establish patent infections with primary infection dose of 10,000 eggs, significant eosinophil response; patent infections established with dose of 50 eggs, no significant eosinophil response; mechanism of expulsion of high level infections not known

Immunity

Joseph, M.; Dessaint, J. P.; and Capron, A., 1977, *Cellular Immunol.*, v. 34 (2), 247-258
Schistosoma mansoni, macrophage cytotoxicity induced by IgE immune complexes against schistosomula, possible mechanism of new model of macrophage activation and cytotoxicity

Immunity

Joyner, L. P., 1973, *Folia Vet. Latina*, v. 3 (1), 110-123
Eimeria adenoeides, *Eimeria meleagridis*, coccidiosis in turkeys, pathogenicity, age resistance, control, drug resistance, review

Immunity

Joyner, L. P.; and Norton, C. C., 1976, *Parasitology*, v. 72 (1), 115-125
Eimeria maxima, *E. acervulina*, chicks, immunity arising from continuous low-level infections was stronger and/or more enduring than that produced by single inoculations of comparable numbers of oocysts

Immunity

Kagan, I. G., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 1137-1163
 evaluation of immune state by immunologic techniques, review

Immunity

Kaplan, M. H.; and Bernstein, L. S., 1974, *Mil. Med.*, v. 139 (6), 444-448
Plasmodium vivax, U.S. soldiers in Vietnam, improved care with primaquine combined with chloroquine therapy; survey of servicemen shows frequent mixed hookworm infections, increased serum IgM levels and decreased cholesterol levels

Immunity

Karim, K. A.; and Trust, T. J., 1977, *Canad. Med. Ass. J.*, v. 117 (8), 895-896, 899
Toxoplasma gondii, sero-epidemiologic survey for titers of antibody to toxoplasmosis indicates that one in three persons in Greater Victoria area has been infected with the rate of infection particularly high in women aged 31 to 35: British Columbia

Immunity

Karr, S. L., jr.; Wong, M. M.; and Brummer, M., 1977, *J. Electr. Micr.*, v. 26 (2), 176 [Abstract]
Naegleria fowleri in monkey kidney cell cultures, inoculation of immune monkey serum prevented destruction of cells by amebae, light and scanning electron microscopy

Immunity

Kassis, A. I.; and Tanner, C. E., 1976, *Internat. J. Parasitol.*, v. 6 (1), 25-35
Echinococcus granulosus and *E. multilocularis* protoscolecemes, lysis in vitro by fresh serum; role of complement proteins in lysis suggested by inhibition of protoscolecidal activity by heat, EDTA, or cobra venom factor; anticomplementary activity of hydatid fluid (associated with calcareous corpuscles) may protect protoscolecemes in vivo; suggestion that use of formalin during surgery to kill parasite should be replaced by use of fresh serum

Immunity

Kassis, A. I.; and Tanner, C. E., 1976, *Nature*, London (5569), v. 262, 588-589

Echinococcus granulosus in *Sigmondon hispidus*, replacement of hydatid fluid by fresh serum from infected host kills cysts, may be practical immunotherapeutic method, similar replacement also killed treated *Echinococcus multilocularis* cysts but cyst mass continued to grow by surface budding, these data confirm hypothesis that hydatid cysts survive despite antibody response because antibodies normally pass into cysts in quantities too small to destroy the parasite

Immunity

Kassis, A. I.; and Tanner, C. E., 1977, *Immunology*, v. 33 (1), 1-9

Echinococcus multilocularis, demonstration of host serum proteins within cyst membranes and on surface of protoscoleces, concluded that complement-mediated lysis of this metazoan organism proceeds via classical pathway of complement activation

Immunity

Katiyar, J. C.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 169-170 [Letter]

human filariasis, persons undergoing diethyl-carbamazine therapy for *Wuchereria bancrofti*, interference with skin test reactions when *W. bancrofti* used as antigen, review of possible mechanisms

Immunity

Katz, D. H.; et al., 1974, *J. Immunol.*, v. 113 (3), 974-983

Ascaris suum, mice, evidence for distinctive sensitivities of IgE and IgG B lymphocytes to regulatory influences of T cells

Immunity

Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 502-508

Schistosoma mansoni, mice, induction of cellular and humoral immunological reactivity to soluble cercarial antigen preparation, assayed by in vitro lymphocyte blastogenic activity and by presence of agglutinating and reaginic antibody activity

Immunity

Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 509-521

Schistosoma mansoni, mice, intradermal response against soluble cercarial antigenic preparation was sequentially mediated by early antibody response and late developing cellular response as demonstrated histologically and by passive transfer of serum and lymphoid cells

Immunity

Keller, R.; Ogilvie, B. M.; and Simpson, E., 1971, *Lancet*, London (7701), v. 1, 678-680

Nippostrongylus brasiliensis, rats, mice, effect of infection on tumor growth, results raise possibility that helminths and tumors may share antigens and suggest that helminth infections have non-specific effect on tumor growth

Immunity

Kelly, J. D., 1973, *Austral. Vet. J.*, v. 49 (2), 91-97

mechanisms of immunity to intestinal helminths, review

Immunity

Kelly, J. D.; et al., 1974, *Internat. Arch. Allergy and Applied Immunol.*, v. 47 (3), 458-465

Nippostrongylus brasiliensis, rats, comparative capacity of synthetic prostaglandins and pharmacologically active amines to initiate worm expulsion

Immunity

Kelly, J. D.; and Dineen, J. K., 1976, *Austral. Vet. J.*, v. 52 (9), 391-397

gastrointestinal helminths, role of prostaglandins in worm expulsion, review

Immunity

Kemp, W. M.; et al., 1976, *J. Parasitol.*, v. 62 (3), 413-419

Schistosoma mansoni adults, immunocytochemical localization of mouse alpha 2-macroglobulin antigenic determinants on surface of worms of both murine and primate origin

Immunity

Kemp, W. M.; et al., 1977, *J. Immunol.*, v. 119 (5), 1849-1854

Schistosoma mansoni, evidence for adsorption of heterospecific host immunoglobulin on worm tegument

Immunity

Kemp, W. M.; Damian, R. T.; and Greene, N. D., 1976, *J. Parasitol.*, v. 62 (5), 830-832

Schistosoma mansoni, immunocytochemical localization of baboon IgG on tegumental surfaces of adult parasites obtained from baboons

Immunity

Kendall, S. B.; Small, A. J.; and Phipps, L. P., 1977, *J. Comp. Path.*, v. 87 (4), 551-555

Oesophagostomum quadrispinulatum, pigs (exper.), repeated infection with 500 larvae induced a solid resistance in about 50 days, barrier to reinfection develops against third stage larvae

Immunity

Kennedy, M. W., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 285 [Demonstration]

Trichinella spiralis in NIH mice, kinetics of establishment and rejection of enteral phase of primary infection

Immunity

Kershaw, W. E.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 438 [Demonstration]

filariasis, cotton rats, first infection retards development of worms of second infection, second infection may cause abrupt fall in circulating microfilariae

Immunity

Kershaw, W. E.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 11-12 [Demonstration]

Litosomoides carinii, serum immunoglobulin levels in cotton rats on protein-deficient diets

Immunity

Kettis, A. A.; Lidman, K.; and Fagraeus, A., 1977, J. Parasitol., v. 63 (3), 581-583

Entamoeba histolytica, presence of actin in trophozoites demonstrated by immunofluorescence using human sera with anti-actin specificity

Immunity

Khacholian, V. I.; et al., 1976, Biol. Zhurnal Armenii, v. 29 (3), 87-89

Trypanosoma lewisi, rats, mitotic activity of bone marrow and spleen cells

Immunity

Khoury, P. B.; and Soulsby, E. J. L., 1977, Exper. Parasitol., v. 41 (1), 141-159

Ascaris suum, guinea pigs, lymphoid cell responses during primary infections assessed by antigen-induced lymphocyte transformation, rosette-formation, and rosette-plaquing techniques, progression of local lymphoid cell responses in lymphoid organs draining parasitized tissues

Immunity

Khoury, P. B.; and Soulsby, E. J. L., 1977, Exper. Parasitol., v. 41 (2), 432-445

Ascaris suum, immunized guinea pigs given challenge infections, lymphoid cell responses of draining lymph nodes and spleen, in vitro antigen-induced lymphocyte transformation, rosette formation, rosette inhibition, and rosette-plaquing techniques

Immunity

Khoury, P. B.; Stromberg, B. E.; and Soulsby, E. J. L., 1977, Immunology, v. 32 (4), 405-411

Ascaris suum, guinea pigs, passive transfer of immunity by cells or serum, significant protection with immune IgG2, IgE + IgG1 and whole immune serum or with lymphocytes from hepatic and mediastinal lymph nodes of immune animals, minimal protection with IgM and IgA, spleen lymphocytes enhanced rather than reduced degree of infection

Immunity

Kierszenbaum, F.; and Howard, J. G., 1976, J. Immunol., v. 116 (5), 1208-1211

differences in susceptibility to and immunization against Trypanosoma cruzi (Y and Tulahuén strains) in Biozzi high vs. low responder mice, correlation between antibody-forming potential and susceptibility, protection of low responders by passive transfer of immune plasma

Immunity

Kikuchi, T., 1974, Nippon Ganka Kyo (Folia Ophth. Japon.), v. 25 (2), 187-194

Toxoplasma gondii, ocular infection in rabbits (exper.), pathologic changes, correlation with antibody response

Immunity

Kilejian, A.; Abati, A.; and Trager, W., 1977, Exper. Parasitol., v. 42 (1), 157-164

Plasmodium falciparum, Plasmodium coatneyi, knob-like protrusions on infected monkey erythrocyte membranes are antigenically different from adjacent areas devoid of knobs

Immunity

Kimber, C. D.; and Young, A. S., 1977, Ann. Trop. Med. and Parasitol., v. 71 (1), 1-10

Theileria mutans (Aitong), cattle infected by cyclical and mechanical transmission, response to infection studied using indirect fluorescent antibody technique with piroplasm and schizont antigens, indistinguishable reactions with different strains of T. mutans but easily distinguishable reactions from other Theileria spp.

Immunity

Kimoto, M.; et al., 1977, J. Immunol., v. 118 (3), 840-845

induction of in vitro IgE antibody response in murine spleen cells and demonstration of possible involvement of distinct T-helper cells in IgE and IgG antibody responses, Ascaris suum and DNP-A. suum used as antigens

Immunity

Kishimoto, T.; et al., 1975, J. Immunol., v. 115 (5), 1179-1184

effect of anti-immunoglobulin and enhancing soluble factor on differentiation and proliferation of B cells, Ascaris suum used as antigen

Immunity

Kishimoto, T.; and Ishizaka, K., 1972, J. Immunol., v. 109 (3), 612-622

Ascaris suum, rabbits, role of hapten-specific memory cells and carrier-specific helper cells on distribution of anti-hapten antibodies in IgG, IgM, and IgE classes

Immunity

Kishimoto, T.; and Ishizaka, K., 1972, J. Immunol., v. 109 (6), 1163-1173

Ascaris suum, rabbits, distribution of immunoglobulin heavy chain antigenic determinants on hapten-specific memory cells

Immunity

Kishimoto, T.; and Ishizaka, K., 1973, J. Immunol., v. 111 (1), 1-9

Ascaris suum, rabbits, effect of carrier-specific (T) helper cells on generation of hapten-specific (B) memory cells of different immunoglobulin classes

Immunity

Kishimoto, T.; and Ishizaka, K., 1973, J. Immunol., v. 111 (3), 720-732

Ascaris suum, used as priming or supplemental immunization in combination with various other antigens, results show that carrier-specific helper cells for IgE antibody formation are different from those for IgG/IgM antibody formation

Immunity

Kishimoto, T.; and Ishizaka, K., 1974, *J. Immunol.*, v. 112 (5), 1685-1697
Ascaris suum, rabbits, multiplicity of soluble factors released from carrier-specific cells

Immunity

Kishimoto, T.; and Ishizaka, K., 1975, *J. Immunol.*, v. 114 (2, Pt. 1), 585-591
 induction of secondary anti-hapten IgG antibody response by anti-immunoglobulin and enhancing soluble factor, DNP-*Ascaris suum* used as priming antigen

Immunity

Kishimoto, T.; and Ishizaka, K., 1975, *J. Immunol.*, v. 114 (4), 1177-1184
 immunologic and physicochemical properties of enhancing soluble factors for IgG and IgE antibody responses, DNP-*Ascaris suum* conjugate used as antigen

Immunity

Kishimoto, T.; and Ishizaka, K., 1976, *J. Immunol.*, v. 116 (2), 534-541
 biphasic effect of cyclic AMP on secondary anti-hapten antibody response to anti-immunoglobulin and enhancing soluble factor, DNP-*Ascaris suum* used as antigen

Immunity

Knight, R.; and Warren, K. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (5), 644-651
 mice, outcome of *Entamoeba histolytica* challenge at different stages of *Schistosoma mansoni* infection, synergistic relationship, interaction affected both infectivity of *E. histolytica* inoculum and also likelihood of amoebic tissue invasion, prepatent schistosome infections without effect and unisexual infections somewhat more susceptible than controls

Immunity

Knowles, E. E. III; and Hall, J. E., 1976, *J. Invert. Path.*, v. 27 (3), 351-362
 penetration and development of *Allopodocotyle lepomis* in mayfly naiads, histopathology, immune response

Immunity

Koenig-Rombourg, H., 1973, *Medecine Trop.*, v. 33 (6), 611-616
 survey of 270 sera for toxoplasmosis antibodies, comparison of Senegalese natives with findings in Europeans, relationship of age to antibodies

Immunity

Koerting, W., 1975, *Fisch u. Umwelt* (1), 3-11
 host-parasite relationships from the point of view of fishery biology, parasite effects on host, immunity, control, review

Immunity

Kojima, S.; and Ovary, Z., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (1), 81-86
 rats immunized with dinitrophenylated *Nippostrongylus brasiliensis* protein 2 weeks after initial infection, induction of carrier-specific enhancing effect on primary and secondary anti-hapten IgE antibody response

Immunity

Komandarev, S.; and Dragneva, N., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16, 127-132
Trichinella spiralis, guinea pigs, infection and superinfection, leucocytolysis in vitro

Immunity

Komandarev, S.; and Mikhov, L., 1972, *Izvest. Tsentral. Khelmin. Lab.*, v. 15, 135-142
Trichinella spiralis, mice, experiments do not give evidence of intrauterine transmission of immunological tolerance or immunity

Immunity

Komandarev, S.; Poliakova-Krusteva, O.; and Dragneva, N., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16, 119-126
Trichinella spiralis, guinea pigs, infection and superinfection, plasmocyte reaction

Immunity

Kouwenhoven, B.; and Kuil, H., 1976, *Vet. Parasitol.*, v. 2 (3), 283-292
Eimeria tenella, chickens, rabbits, demonstration of circulating antibodies by indirect immunofluorescent antibody test using sporozoites and second-stage schizonts as antigen

Immunity

Kozar, Z., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 871-912
 toxoplasmosis and coccidiosis in mammalian hosts, immunology, review

Immunity

Krahenbuhl, J. L.; Lambert, L. H., jr.; and Remington, J. S., 1976, *Cellular Immunol.*, v. 25 (2), 279-293
Toxoplasma gondii and *Besnoitia jellisoni* used as form of stimulation for obtaining activated macrophages, effects of activated macrophages on tumor target cells, escape from cytostasis

Immunity

Krahenbuhl, J. L.; Lambert, L. H., jr.; and Remington, J. S., 1976, *Immunology*, v. 31 (6), 837-846
 mice injected with living or killed *Toxoplasma gondii* or with *Corynebacterium parvum*, effect on macrophage-mediated cytostasis of tumor target cells

Immunity

Krahenbuhl, J. L.; and Remington, J. S., 1971, *Infect. and Immun.*, v. 4 (4), 337-343
Toxoplasma gondii-sensitized spleen cells in vitro in presence of specific antigen have capacity to activate or enhance microbicidal properties of normal peritoneal macrophages against *Listeria*

Immunity

Krahenbuhl, J. L.; and Remington, J. S., 1974, *J. Immunol.*, v. 113 (2), 507-516
 peritoneal macrophages from mice chronically infected with *Toxoplasma gondii* and *Besnoitia jellisoni* had marked cytostatic effect on variety of tumor target cells

Immunity

Kreier, J. P., 1976, *Vet. Parasitol.*, v. 2 (1), 121-142

Plasmodium berghei, rats, mechanisms for implementation of immune response by humoral antibody and phagocytes, changes in cellular systems upon which development of immune response is dependent, review

Immunity

Kress, Y.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 385-396

Trypanosoma cruzi, fate of phagocytized parasites in normal and BCG-activated mouse peritoneal macrophages previously labeled with thorium dioxide to permit lysosomal visualization, both activated and normal macrophages could control infections but activated cells could control significantly greater infection

Immunity

Krettli, A. U.; and Brener, Z., 1976, *J. Immunol.*, v. 116 (3), 755-760

Trypanosoma cruzi, trypomastigotes incubated with immune sera, agglutination and decreased infectivity of Y strain, no apparent effect with CL strain, demonstration of antigenic variation, role of humoral immunity further confirmed by protection conferred by passive transfer of antibodies

Immunity

Krettli, A. U.; and Nussenzweig, R., 1974, *Cellular Immunol.*, v. 13 (3), 440-446

Plasmodium berghei, mice, depletion of T and B lymphocytes during infection, probable causal relationship with malaria-induced immunosuppression

Immunity

Krupa, P. L.; and Lewis, L. M., 1977, *Biol. Bull.*, v. 153 (2), 433 [Abstract]

differential surface coat staining of *Bulinus guernei* hemocytes interacting with *Schistosoma haematobium*, possibly preliminary to encapsulation

Immunity

Kuhn, R. E.; and Murnane, J. E., 1977, *Exper. Parasitol.*, v. 41 (1), 66-73

Trypanosoma cruzi, immune destruction of parasitized mouse fibroblasts in vitro

Immunity

Kuhn, R. E.; and Vaughn, R. T., 1976, *Internat. J. Parasitol.*, v. 6 (2), 129-134

Trypanosoma cruzi, development of indirect assay suitable for studies on immune-mediated trypanosome destruction in vitro, application to complement-dependent antibody-mediated lysis, possible utility in lymphocyte-mediated cytotoxicity and in diagnosis

Immunity

Kuil, H.; et al., 1977, *Vet. Parasitol.*, v. 3 (1), 33-40

Eimeria maxima, *Eimeria acervulina*, chickens, effect of inoculation dose on indirect fluorescent antibody response, difference in immunogenicity between two species substantiated by difference in IFA response after challenge, reinoculation with *Eimeria maxima* indicated that birds were immune but single infection with *Eimeria acervulina* did not result in solid immunity

Immunity

Kuil, H.; and Dankert-Brands, S., 1976, *Vet. Parasitol.*, v. 2 (3), 293-298

Eimeria tenella, *E. maxima*, development of indirect fluorescent antibody titers in infected chickens fed rations medicated with metichlorpindol and/or methylbenzoate, concluded that development of parasite is necessary to stimulate host to produce circulating fluorescent antibodies

Immunity

Kumar, V.; and Mortelmans, J., 1976, *Parasitology*, v. 72 (1), 13-18

Metastrongylus apri, guinea pigs, levamisole-terminated prepatent infection, stimulation of strong immunity to challenge, increase in serum gamma-globulin levels

Immunity

Kunstyr, I.; Ammerpohl, E.; and Meyer, B., 1977, *Lab. Animal Sc.*, v. 27 (5), part II, 782-788

Spiroplasma muris, nude mouse (exper.) an excellent model for immunologic and pharmacologic studies; dimetridazole, metronidazole, tinidazole, and Acranil tested

Immunity

Kushimo, J. B., 1976, *Immunology*, v. 30 (5), 635-639

IgM and IgG antibody responses to complexes of denatured *Trypanosoma brucei* DNA and methylated bovine serum albumin, compared to exclusive IgM response to calf thymus DNA-MBSA complexes, rabbits

Immunity

Lackie, A. M., 1976, *Parasitology*, v. 73 (1), 97-107

Hymenolepis diminuta, evasion of haemocytic defence reaction (encapsulation) of certain insects, results suggest that surface of cestode larvae may bear similarity to surface of host tissues and thus escape recognition as 'not-self' by host haemocytes

Immunity

Laemmler, G.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 327-341

Capillaria hepatica in *Mastomys natalensis* as a model system, review: infection and early development, egg production, host reactions (pathological and pathophysiological changes, serologic response), implications for human infections

Immunity

- Lainson, R.; and Shaw, J. J., 1977, *J. Trop. Med. and Hyg.*, v. 80 (2), 29-35
cross-immunity trials with *Cebus apella* and observations on natural and experimental human infections confirm separate identity of *Leishmania mexicana mexicana*, *L. m. amazonensis*, *L. braziliensis braziliensis*, *L. b. guyanensis* and *L. b. panamensis*

Immunity

- Lang, B. Z., 1975, *Proc. Oklahoma Acad. Sc.*, v. 55, 147-149
Fasciola hepatica, mechanism of acquired immunity, host-parasite relationships, experimental animals, review

Immunity

- Lang, B. Z., 1976, *J. Parasitol.*, v. 62 (2), 232-236
Fasciola hepatica, treatment of 16-day-old flukes in anti-worm incubate sera and anti-25-day infection sera, significant decrease in ability to continue migration in normal recipient mice; successful vaccination with a crude incubate antigen

Immunity

- Lawrence, J. A., 1973, *Research Vet. Sc.*, v. 14 (3), 400-402
Schistosoma mattheei, calves (exper.), highly susceptible to infection and reinfection, parasites survive and maintain steady albeit low rate of reproduction for long periods, but immunological suppression of egg laying has marked limiting effect on clinical illness and absence of increase in egg excretion after reinfection provides effective protection against clinical effects of re-exposure

Immunity

- Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (2), 239-240
globule leucocytes in *Schistosoma mattheei*-infected Friesian steers, incidence and distribution, results indicate globule leucocytes are associated with host immune response to schistosomiasis and that they are derived from mast cells

Immunity

- Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (3), 280-287
Schistosoma mattheei, Friesian calves, clinical pathological changes after primary infection, two different planes of nutrition

Immunity

- Lawrence, J. A., 1977, *Vet. Parasitol.*, v. 3 (4), 291-303
Schistosoma mattheei in Friesian steers (exper.), pattern of elimination of adult worms, length of parasites and numbers of eggs in utero of worms from different parts of host body, egg output in faeces, changes appeared to be mediated by host immune response

Immunity

- Lee, C. M.; Aboko-Cole, G. F.; and Fletcher, J., 1976, *Ztschr. Parasitenk.*, v. 49 (1), 1-10
Trypanosoma musculi, vitamin A-deficient mice, increased parasitemia, delayed action of reproductive-inhibiting and terminal lytic antibodies, increase in body weight gains and food consumption

Immunity

- Lee, C. M.; George, Y. G.; and Aboko-Cole, G. F., 1977, *Internat. J. Biochem.*, v. 8 (7), 525-529
Trypanosoma lewisi in iron-deficient rats, parasitemias, trypanosome cell size and antibody formation, host body weight gains and food consumption

Immunity

- Leeflang, P.; et al., 1976, *Internat. J. Parasitol.*, v. 6 (2), 159-161
survey of 173 males using indirect fluorescent antibody technique with *Babesia bovis*, *B. bigemina*, and *B. ratti* as antigens, babesial antibodies detected in 54%, no correlation found with mode of living, contact with livestock, incidence of malaria parasitaemias or malarial antibodies, no *Babesia* organisms found in blood smears or by animal subinoculation, source of antibodies unknown but subclinical infection not likely: Nigeria

Immunity

- Leger, N.; et al., 1976, *Compt. Rend. Acad. Sc.*, Paris, v. 283, s. D (2), 187-190
Schistosoma mansoni 3 strains (Guadeloupe, Puerto Rico, African), immunological response in *Rattus norvegicus* var. *albinus* and *Rattus rattus*, *R. rattus* shows weak immunological response to the American strains and persistent infection, this may explain its role in schistosomiasis epidemiology in Guadeloupe

Immunity

- Leid, R. W., 1977, *Am. J. Trop. Med. and Hyg.*, v. 25 (6, Pt. 2), 54-60
Taenia taeniaeformis, immunity to metacystode in laboratory rat, workshop report

Immunity

- Lepes, T., 1973, *Acta Parasitol. Iugoslavica*, v. 4 (1), 13-24
malaria, immune response, its basic elements and serological and immunological techniques for measuring it, possibilities for immunization, review

Immunity

- Lepp, D. L.; and Todd, K. S., jr., 1974, *J. Protozool.*, v. 21 (2), 199-206
Isospora canis in dogs (exper.), description, endogenous cycle, localization in small intestine; failure to reinfect previously infected dogs

Immunity

- Leutskaja, Z. K., 1969, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 20, 88-90
Ascaridia galli antigen-immunized chickens, content of various forms of vitamin A in mitochondria and microsomes of spleen cells, possible role of vitamin A in antibody formation and immune process

Immunity

- Leutskaja, Z. K., 1975, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 25, 71-90
Ascaridia galli in chicks, role of vitamin A in immunogenesis (increase of resistance, specific immunity, antibody formation), specifically, role in immunization

Immunity

- Leventhal, R.; and Soulsby, E. J. L., 1976, Internat. J. Parasitol., v. 6 (3), 279-283
Ascaris suum larvae, adhesion and degranulation of polymorphonuclear leukocytes on surface, evaluation of serum components which are responsible for opsonization

Immunity

- Le Vignelloux, J.; et al., 1971, Medecine Trop., v. 31 (4), 399-403
 variations in immunologic findings of indirect immunofluorescent antibody test in human *Schistosoma mansoni*, no correlation between eggs excreted in urine and antibody titers

Immunity

- Le Vignelloux, J.; and Barabe, P., 1974, Medecine Trop., v. 34 (5), 653-660
 possible mechanisms of immunity in human *Plasmodium* and application to epidemiologic studies, review

Immunity

- Lewert, R. M., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 981-1008
Schistosomiasis, immunology, review

Immunity

- Lewert, R. M.; et al., 1977, J. Parasitol., v. 63 (5), 825-830
Schistosoma japonicum, rejection of mouse-derived worms upon transfer to rabbits immunized with either mouse erythrocytes or mouse gamma globulin, lethality of anti-mouse rabbit sera to mouse-derived schistosomula of *S. japonicum* and *S. mansoni* in vitro, implications for mechanism of parasite survival

Immunity

- Lewis, F. A.; and Colley, D. G., 1977, J. Parasitol., v. 63 (3), 413-417
Schistosoma mansoni, mice, modification of lung recovery assay (extended incubation of minced lung tissue) and correlations with worm burdens, may provide more defined indicator of protective immunity

Immunity

- Lewis, F. A.; Sher, A.; and Colley, D. G., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 723-726
Schistosoma mansoni, transfer of human plasma obtained from persons with schistosomiasis mansoni to CF1 mice was unsuccessful in protecting mice against subsequent infection, lack of protection occurred even though the plasma contained high levels of anti-schistosomular antibody

Immunity

- Liburd, E. M.; Armstrong, W. D.; and Mahrt, J. L., 1973, Cellular Immunol., v. 7 (3), 444-452
Eimeria nieschulzi in rats, investigation of normal immune response and of adoptive immunity with primed thoracic duct lymphocytes

Immunity

- Liburd, E. M.; Pabst, H. F.; and Armstrong, W. D., 1972, Cellular Immunol., v. 5 (3), 487-489
Eimeria nieschulzi in rats as an animal model for evaluation of dialyzable transfer factor, partial but significant immunity induced by injection of transfer factor from immune syngeneic animals

Immunity

- von Lichtenberg, F.; et al., 1976, Am. J. Path. (412), v. 84 (3), 479-500
Schistosoma mansoni, eosinophil-enriched inflammatory response to schistosomula in skin of immune mice, immune cellular responses are limited to early time period after penetration and are morphologically suggestive of antibody-mediated response rather than of delayed hypersensitivity

Immunity

- von Lichtenberg, F.; Sher, A.; and McIntyre, S., 1977, Am. J. Path. (419), v. 87 (1), 105-124
Schistosoma mansoni schistosomula, mice as experimental hosts for analyzing dynamics of cellular and humoral processes in lung, immunologic relationships to host resistance

Immunity

- Lie Kian Joe; and Heyneman, D., 1976, J. Parasitol., v. 62 (2), 292-297
 laboratory-raised juvenile albino *Biomphalaria*, wide range of natural resistance to single infection with 50 or 100 miracidia of *Echinostoma lindoense*, migration route of sporocysts in relation to likelihood of sporocyst entrapment and encapsulation and destruction, tissue reactions, changes in amebocyte-producing organ

Immunity

- Lie Kian Joe; and Heyneman, D., 1976, J. Parasitol., v. 62 (2), 298-302
Biomphalaria glabrata, formation of amebocyte aggregates that fail to destroy *Echinostoma lindoense* sporocysts in heart, subsequent loss of protective capacity and high susceptibility to reinfection in snails harboring such an "escaped" infection

Immunity

- Lie Kian Joe; Heyneman, D.; and Jeong, K. H., 1976, J. Parasitol., v. 62 (2), 286-291
Echinostoma lindoense-sensitized *Biomphalaria glabrata*, induction of ventricular capsules, changes in constituent amebocytes of capsule, relationship of sporocyst encapsulation to amebocyte-producing organ

Immunity

Lindberg, R. E.; and Frenkel, J. K., 1977, *Infect. and Immun.*, v. 15 (3), 855-862
Toxoplasma gondii and *Besnoitia jellisoni* in vitro in hamster peritoneal exudate cells, antigenic stimulation of peritoneal cells and expression of immunity, inhibition of parasite growth by peritoneal macrophages armed either specifically or nonspecifically, expression of immunity by cells derived from hamsters treated with cortisol, effects of cortisol on (1) immune and non-immune lymphocytes, (2) arming of macrophages by lymphocytes, (3) the ability of peritoneal macrophages to destroy antibody-treated parasites

Immunity

Liston, A. J.; and Baker, J. R., 1977, *J. Protozool.*, v. 24 (4), 41A [Abstract]
Trypanosoma dionisii, attachment and entry to mouse peritoneal macrophages in vitro and involvement of membrane receptors, relative roles of non-specific and specific immunological factors in these processes need further clarification

Immunity

Ljungstroem, I.; and Huldt, G., 1977, *Acta Path. et Microbiol. Scand.*, v. 85C (2), 131-141
Trichinella spiralis, mice, humoral and cellular immune responses to unrelated antigens at different stages of infection, humoral response depressed during short period of infection but depression of cell mediated response is more severe and longer lasting

Immunity

Ljungstroem, I.; and Ruitenber, E. J., 1976, *Clin. and Exper. Immunol.*, v. 24 (1), 146-156
Trichinella spiralis, thymectomized lethally irradiated CBA mice, immunohistological and serological response to oral infection, data support thymus dependency of host response against *Trichinella*

Immunity

Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70
Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)

Immunity

Loehr, K.F., 1972, *J. Protozool.*, v. 19 (4), 658-660
Babesia bigemina, immunity in cattle (exper.), concluded that premunity is followed by sterile immunity which lasts for at least 6 months and thereafter fades gradually with time, also concluded that minimum period of contact between host and parasite is required for acquisition of immunity, capillary tube agglutination test sensitive but unsuitable for detection of carrier animals

Immunity

Loehr, K. F.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 192-197
Anaplasma organisms isolated in splenectomized calves following blood inoculation from *Connochaetes taurinus*, *Alcelaphus buselaphus cokii*, and *Gazella thomsonii*, morphologically indistinguishable from *Aepyceros melampus*, mild reaction of receptor calves to antelope-derived infection and severe reaction to subsequent *A. melampus* challenge, indirect fluorescent antibody results established close antigenic relationship between antelope anaplasmas and *A. melampus* and less so to *Anaplasma centrale*: Kenya

Immunity

Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 217-226
 sera of 1505 game animals of 19 different species screened for antibodies to *Anaplasma marginale*, *Babesia bigemina*, and *Theileria parva*, capillary tube agglutination and indirect fluorescent antibody tests, antibodies more prevalent in sera of antelopes grazing in vicinity of non-dipped cattle than in areas where cattle are either dipped regularly or are not present at all, need for studies on transmission of these organisms from game to cattle and vice versa: Kenya; Tanzania; Uganda; Zambia

Immunity

Londono, I., 1974, *Bol. Chileno Parasitol.*, v. 29 (3-4), 64-71
Trichinella spiralis, antigenic differences between larvae and adults demonstrated by development of stage-specific precipitin antibodies

Immunity

Londono, I., 1974, *Bol. Chileno Parasitol.*, v. 29 (3-4), 72-78
Trichinella spiralis, association of antilarval and anti-adult precipitin antibodies with specific immunoglobulins, rats

Immunity

Long, P. L.; and Millard, B. J., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 287-290
Eimeria spp., immunized chickens, oocysts produced after corticosteroid treatment in some birds, possibly endogenous cycle continues or remains dormant; possible means of diagnosis of occult infection in apparently immune hosts

Immunity

Long, P. L.; and Speer, C. A., 1977, *Symposia Brit. Soc. Parasitol.*, v. 15, 1-26
Coccidia, invasion of host cells, symposium presentation: general considerations; excystation; invasion of cells by *Eimeria* in vivo; host reactions to invasion by *Eimeria*; invasion of cells by *Eimeria* sporozoites in vitro; factors affecting invasion of cells by sporozoites; invasion of cultured cells by merozoites; invasion of cells by *Toxoplasma*

Immunity

- Longstaffe, J. A.; Freeman, J.; and Hudson, K. M., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 264-265 [Abstract]
 Trypanosoma [a] brucei brucei, mice, some thymus-dependent and thymus-independent immune responses, results support postulation of either impaired T cell viability or impaired T-B cell interaction

Immunity

- Loose, L. D.; and Di Luzio, N. R., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 221-228
 Plasmodium berghei, mice, temporal relationship between reticuloendothelial system phagocytic alterations and antibody responses, implications for mechanism of malaria-induced immunosuppression

Immunity

- Lopez D., T., 1976, J. Protozool., v. 23 (2), 17A [Abstract]
 Trypanosoma venezuelense, rats, serum proteins

Immunity

- Love, R. J.; and Ogilvie, B. M., 1977, Exper. Parasitol., v. 41 (1), 124-132
 Nippostrongylus brasiliensis, Trichinella spiralis, rats, increased localization of thoracic duct lymphoblasts in small intestine, not correlated with presence of antigen but related to factors associated with inflammation, no increase in blast localization in lactating vs. nonlactating rats but increased localization in lactating mammary gland

Immunity

- Love, R. J.; Ogilvie, B. M.; and McLaren, D. J., 1976, Immunology, v. 30 (1), 7-15
 Trichinella spiralis, duration of infections in rats (young, adult, and lactating), rapidity of expulsion from previously infected rats, transfer of immunity with antiserum and lymph node cells, ultrastructural signs of antibody damage to worms, results suggest that mechanism of immune expulsion requires both antibody and cells, comparison with Nippostrongylus brasiliensis

Immunity

- Lubinieccki, A. S.; and Cypess, R. H., 1975, Tropenmed. u. Parasitol., v. 26 (3), 329-333
 Trichinella spiralis in mice (exper.), effects of helminth infections on tumor development and variations in host immune reactions

Immunity

- Lubinieccki, A. S.; Cypess, R. H.; and Lucas, J. P., 1974, Tropenmed. u. Parasitol., v. 25 (3), 345-349
 Trichinella spiralis-infected mice, altered distribution of intravenously injected sheep erythrocytes (reduced uptake by spleen) but no significant depression of resultant plaque-forming cells or circulating HA antibody

Immunity

- Luckins, A. G., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 272-273 [Abstract]
 Trypanosoma congolense, T. vivax, cattle, elevated IgM levels: Uganda

Immunity

- Luckins, A. G., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 148-149 [Abstract]
 Trypanosoma congolense, T. vivax in zebu cattle, increased levels of IgM in presence of infection

Immunity

- Luckins, A. G., 1975, Ann. Trop. Med. and Parasitol., v. 69 (3), 337-344
 Trypanosoma vivax, T. brucei, T. congolense-infected Tragelaphus scriptus, serum immunoglobulin levels and relative proportions of serum proteins, compared with Zebu cattle

Immunity

- Luckins, A. G., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 272-273 [Abstract]
 trypanosome-infected Tragelaphus scriptus from endemic areas, increased immunoglobulin levels: Uganda

Immunity

- Luckins, A. G., 1976, Ann. Trop. Med. and Parasitol., v. 70 (2), 133-145
 Trypanosoma congolense, T. vivax, zebu cattle (exper.), serum immunoglobulin levels during infection and after administration of diminazene aceturate

Immunity

- Luckins, A. G.; and Mehlitz, D., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 479-480
 Trypanosoma brucei, T. vivax, T. congolense, cattle (exper.), single or mixed infections, serum immunoglobulin levels

Immunity

- Lumsden, W. H. R., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 74-75 [Letter]
 Leishmania spp., classification of taxonomic characters using morphology, chemical structure, immunologic effect, behaviour and clinical outcome in man as criteria

Immunity

- Lustig, H. J.; Nussenzweig, V.; and Nussenzweig, R. S., 1977, J. Immunol., v. 119 (1), 210-216
 Plasmodium berghei-infected mice, IgG and IgM present on circulating erythrocytes (both parasitized and nonparasitized), this Ig could be part of immune complexes non-specifically bound to cell surface or could constitute autoantibodies against reticulo-cytes or antibodies against parasite antigens present on cell membrane

Immunity

- Lyra, L. G.; Reboucas, G.; and Andrade, Z. A., 1976, Gastroenterology, v. 71 (4), 641-645
 hepatitis B surface antigen carrier state in hepatosplenic human Schistosoma mansoni, incidence and possible correlations with abnormal immune responses and hepatic pathology and cirrhosis

Immunity

- MacCallum, D. K., 1969, *J. Reticuloendothel. Soc.*, v. 6 (3), 232-252
Plasmodium berghei-infected *Mesocricetus auratus*, sequential changes demonstrated by hepatic system of macrophages during acute infection and after treatment, evidence indicates that macrophages containing endogenous pigment formed by disease process react in identical fashion to macrophages containing exogenous particulate matter (carbon)

Immunity

- MacCallum, D. K., 1969, *J. Reticuloendothel. Soc.*, v. 6 (3), 253-270
Plasmodium berghei-infected *Mesocricetus auratus*, macrophage interactions with pulmonary vasculature during acute infection and after drug therapy

Immunity

- McCarthy, V. C.; and Clyde, D. F., 1977, *Exper. Parasitol.*, v. 41 (1), 167-171
Plasmodium vivax, human, correlation of circumsporozoite precipitation reaction with sporozoite-induced protective immunity

Immunity

- McCullough, F. S.; and Bradley, D. J., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (4), 475-490
Schistosoma haematobium, schoolchildren, repeated egg counts on urines collected over 2 months at same season in 3 years, short-term variations and long-term stability in egg output for each individual child, observations suggest occurrence of concomitant immunity to superinfection: Tanzania

Immunity

- McDonald, V.; and Phillips, R. S., 1975, *J. Protozool.*, v. 22 (3), 54A [Abstract]
Plasmodium vivax chabaudi, mice, adoptive transfer of whole spleen cell population vs. populations enriched with either T- or B-lymphocytes

Immunity

- McDonald, V.; and Phillips, R. S., 1977, *J. Protozool.*, v. 24 (2), Suppl., 4A [Abstract]
Plasmodium chabaudi, mice, transfer of immune spleen cells and immune serum, protective activity was potentiated in irradiated hosts

Immunity

- McFarlane, H., 1976, *Proc. Nutrition Soc.*, v. 35 (3), 263-272
 parasitic infestation, preschool children, malnutrition and impaired immune response, brief review comment: Nigeria

Immunity

- McGhee, R. B., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 295-329
 avian immunity, general mechanisms and principles, review

Immunity

- McGhee, R. B., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 331-369
 immunity to avian malaria, review

Immunity

- McGreevy, P. B.; et al., 1975, *J. Helminth.*, v. 49 (2), 107-113
Brugia pahangi, larval and adult stages transferred from donor cats to jirds immunized against cats survived as well as in normal jirds, infective larvae transferred from mosquitoes to cats immunized against mosquitoes survived as well as in normal cats, host antigenic determinants not detected on parasite surface in substantial amounts using fluorescent antibody techniques

Immunity

- McLaughlan, P.; et al., 1974, *Clin. and Exper. Immunol.*, v. 16 (3), 375-381
 serum IgE detected in all but 3 of 52 patients with primary or secondary hypogammaglobulinaemia despite very low or unrecordable levels of serum IgG, IgA, and IgM, presence of giardiasis was not related to level of serum IgE

Immunity

- McLeod, R.; and Remington, J. S., 1977, *Cellular Immunol.*, v. 34 (1), 156-174
Toxoplasma gondii, *Besnoitia jellisoni*, mice, studies on specificity of killing of intracellular pathogens by macrophages

Immunity

- McLeod, R.; and Remington, J. S., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 170-186
Toxoplasma gondii, influence of infection on macrophage function, role of macrophages in resistance, workshop report

Immunity

- McLeod, R.; and Remington, J. S., 1977, *J. Immunol.*, v. 119 (6), 1894-1897
Toxoplasma gondii, incorporation of tritium-labelled deoxyuridine into nucleic acids used to evaluate intracellular inhibition of multiplication or killing by mononuclear phagocytes

Immunity

- Maddison, S. E.; Hicklin, M. D.; and Kagan, I. G., 1976, *Exper. Parasitol.*, v. 39 (1), 29-39
Schistosoma mansoni, *Macaca mulatta*, delayed hypersensitivity and reduction in clinical manifestations and in worm burdens conferred by serum and transfer factor from immune or normal rhesus monkeys, results suggest intimate interaction between cellular and humoral immune mechanisms in this host-parasite model

Immunity

- Madwar, M. A.; and Voller, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 57-62
Schistosoma haematobium and *S. mansoni* in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear

Immunity

Magliulo, E.; et al., 1976, *Exper. Parasitol.*, v. 39 (1), 143-149

Toxoplasma gondii, experimentally infected rats, human patients, immunocytoadherence phenomenon (specific binding of antigen-coated erythrocytes to lymphoid cells), possible new approach for understanding mechanism of immune response and for facilitating early diagnosis

Immunity

Mahajan, R. C.; and Dutta, D. V., 1976, *Indian J. Med. Research*, v. 64 (5), 652-655

detection of malarial antibodies in humans with non-cirrhotic portal fibrosis, discussion of malaria as possible etiologic factor in hepatic disease

Immunity

Mahmoud, A. A. F.; Warren, K. S.; and Strickland, G. T., 1976, *Nature*, London (5572), v. 263, 56-57

acquired resistance to infection with *Schistosoma mansoni* induced by *Toxoplasma gondii*, mice, probably a nonspecific mechanism totally different from that of specific immunity

Immunity

Mahoney, D. F.; Wright, I. G.; and Mirre, G. B., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (2), 197-203

Babesia argentina, *B. bigemina*, calves, persistence of immunity after natural infection in early life and subsequent tick-free maintenance, concluded that animals naturally infected during calthood are unlikely to require vaccination for protection against babesiosis in later life

Immunity

Maier, W. A., 1976, *Ztschr. Parasitenk.*, v. 48 (3-4), 151-179

arthropod vectors of human parasites, pathology, defence, evolution of cycles and parasite-vector relationships, extensive theoretical review

Immunity

Manger, B. R., 1976, *Parasitology*, v. 73 (2), xiii-xiv [Abstract]

Nematospiroides dubius, mice, anthelmintic-terminated immunizing infections (Cambendazole selected as most active), variation in degree of protection between host strains, timing of termination of immunizing infection indicated exsheathment per se not essential in production of resistance, protection could not be transferred with serum alone

Immunity

Mansfield, J. M.; Craig, S. A.; and Stelzer, G. T., 1976, *Infect. and Immun.*, v. 14 (4), 976-981

Trypanosoma brucei, *T. congolense*, mitogenic effects of trypanosome extracts in vitro for lymphocytes from normal rabbits, possible relationship to immunological dysfunctions occurring in chronic African trypanosomiasis

Immunity

Marsden, P. D.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 247-251

Trypanosoma cruzi, rhesus monkeys (exper.), xenodiagnosis superior to blood culture or animal inoculation in detecting subpatent infection, serological reactions during early chronic phase and reactions to challenge with different strain, possible application as model for human infections

Immunity

Martin, J.; and Lee, D. L., 1976, *Parasitology*, v. 72 (1), 75-80

Nematodirus battus, appearance of large hexagonal crystals blocking intestine, lipoprotein in composition, apparently associated with development of immunity to this nematode in lambs

Immunity

Marucci, A. A.; Halliday, D.; and Mueller, J. F., 1977, *J. Parasitol.*, v. 63 (1), 170-171

Spirometra mansonioides, use of unlabeled antibody immunohistochemical technique for demonstration of mouse immunoglobulin on surface of worms taken from infected mice; calcareous corpuscles also have heavy concentrations of reaction products but in controls as well

Immunity

Masihi, K. N.; and Werner, H., 1976, *Infect. and Immun.*, v. 13 (6), 1678-1683

Toxoplasma gondii, mice immunized with varying doses, rosette-forming cell response studied by immunocytoadherence

Immunity

Masihi, K. N.; and Werner, H., 1977, *Experientia*, v. 33 (12), 1586-1587

anti-*Toxoplasma* antibodies administered passively to mice may lead to suppression or enhancement of subsequent antibody response when these animals are later infected with *Toxoplasma gondii*, outcome dependent on infecting strain of *Toxoplasma* and antigen-antibody ratio, implications for possible influence which passively acquired maternal antibody may exert on foetus

Immunity

Masihi, K. N.; and Werner, H., 1977, *Zentralbl. Bakteriolog.*, 1 Abt., Orig., v. 237 (2-3), 405-410

Toxoplasma gondii, mice, kinetics of antibody-mediated suppression of humoral immune response at a cellular level

Immunity

Mason, S. J.; et al., 1977, *Brit. J. Haematol.*, v. 36 (3), 327-335

Plasmodium knowlesi, evaluation of role of Duffy blood group negative erythrocytes in host resistance to invasion by *P. knowlesi* merozoites

Immunity

Mathews, H. M.; Lobel, H. O.; and Breman, J. G., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 217-220

Plasmodium falciparum, *P. malariae*, infants and young children, prevalence of malaria antibody evaluated using indirect hemagglutination test with *P. falciparum* antigen and filter paper blood specimens, slight decline in 6- to 8-month-old children with no demonstrable parasitemia but those older than 10 months had similar antibody levels regardless of presence or absence of demonstrated parasites in blood smears: Ivory Coast

Immunity

Matossian, R. M.; et al., 1976, *Internat. J. Parasitol.*, v. 6 (5), 367-371

Echinococcus granulosus, human, serum immunoglobulin levels, significant increase in IgG, increase in IgM and IgA significant only in pulmonary cases, no significant correlation between haemagglutinating and complement fixing antibody titres and respective IgG and IgM levels, IgD levels not different between patients and controls, elevated IgE in 77%, persistent hyperglobulinemia in post-operative follow-ups

Immunity

Matossian, R. M.; Salti, I.; and Stephen, E., 1977, *J. Helminth.*, v. 51 (1), 1-4

Trichinella spiralis, human, time course development of serum immunoglobulin levels

Immunity

Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, *Immunology*, v. 31 (1), 1-19

Leishmania enriettii, *L. tropica major*, *L. aethiopica*, *L. mexicana amazonensis*, numerical immunotaxonomy, differentiation according to reactivity and cross-reactivity in tests of parasite agglutination, indirect immunofluorescence, and passive cutaneous anaphylaxis

Immunity

Mauel, J.; and Behin, R., 1974, *Transplant. Rev.*, v. 19, 121-146

cell-mediated and humoral immunity to protozoan infections (*leishmaniasis*, malaria, trypanosomiasis), review

Immunity

Meacock, S. C. R.; and Marsden, C. H., 1976, *Immunology*, v. 30 (4), 491-496

Nippostrongylus brasiliensis, rats, potentiating effects of infection on IgE antibody production after two injections of egg albumin, IgG_a antibody not potentiated

Immunity

Meerovitch, E.; and Bomford, R., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 245-247

Trichinella spiralis, potentiator of macrophage-mediated immunity

Immunity

Mehlitz, D.; and Ehret, R., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 3-10

Anaplasma, *Babesia*, *Theileria*, cattle, serological survey, capillary-tube agglutination test, indirect fluorescent antibody test, and complement fixation test: Botswana

Immunity

Meigel, W.; et al., 1971, *J. Immunol.*, v. 107 (4), 1146-1151

comparative immunologic studies on fish and invertebrate (*Fasciola hepatica*) collagens

Immunity

Meyers, W. M.; and Connor, D. H., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 524-525

human *Onchocerca volvulus* and *Dipetalonema streptocerca* in persons with leprosy, altered Mazzotti reactions following administration of diethylcarbamazine, possible immunological implications

Immunity

Michel, J.-C., 1975, *Compt. Rend. Acad. Sc., Paris*, v. 281, s. D, *Sc. Nat.* (17), 1281-1283

Plasmodium berghei yoelii, non-specific resistance in mice increased by injection of bacterial phospholipid extract

Immunity

Michel, J. F., 1976, *Advances Parasitol.*, v. 14, 355-397

nematode infections in grazing animals, epidemiology and control, extensive review: free-living stages (bionomics, transport); parasitic stages (population regulation, immunity, host differences, arrested development, post-parturient rise); parasitic gastro-enteritis in sheep and cattle; parasitic bronchitis in cattle

Immunity

Michel, J. F.; Lancaster, M. G.; and Hong, C., 1976, *Internat. J. Parasitol.*, v. 6 (1), 83-86

Ostertagia ostertagi females, variation in form of vulval flap, effect of genetic factors much smaller than effect of host resistance

Immunity

Miller, A. M.; Colley, D. G.; and McGarry, M. P., 1976, *Nature, London* (5569), v. 262, 586-587

Schistosoma mansoni-infected mice, ability of spleen cells to produce diffusible stimulator of eosinophilopoiesis in response to injection of soluble schistosomal egg antigenic preparation

Immunity

Miller, L. H.; et al., 1976, *N. England J. Med.*, v. 295 (6), 302-304

Plasmodium vivax, resistance factor in African and American blacks, Duffy determinants on erythrocyte surface required for invasion of erythrocyte by *vivax* merozoites (Duffy-blood-group-negative human erythrocytes resistant to invasion)

Immunity

Miller, L. H.; Aikawa, M.; and Dvorak, J. A., 1975, *J. Immunol.*, v. 114 (4), 1237-1242
Plasmodium knowlesi, immune serum agglutinated merozoites in culture, agglutinated merozoites attached to erythrocytes but were unable to invade, merozoite agglutination was caused by binding of surface coats on adjacent parasites

Immunity

Miller, L. H.; Powers, K. G.; and Shiroishi, T., 1977, *Exper. Parasitol.*, v. 41 (1), 105-111
Plasmodium knowlesi in rhesus monkeys, no correlation between functional immunity and results of 2 in vitro tests (schizont-infected cell agglutination test; suppression of merozoite invasion by immune serum)

Immunity

Minard, P.; Murrell, K. D.; and Stirewalt, M. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 491-499
Schistosoma mansoni cercaria, material secreted by preacetabular gland sufficiently immunogenic to induce antibodies in mice (exper.) but not sufficient to afford protection against subsequent infections

Immunity

Mitchell, G. F., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 79-94
Ascaris suum body fluid as antigen mixture, mice, effects on circulating reagin titers of manipulations such as T cell deprivation and reconstitution, lipopolysaccharide and cyclophosphamide injection, and altered route of administration of antigen

Immunity

Mitchell, G. F., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 53 (4), 385-388
Babesia rodhaini, hypothyroid BALB/c.nu/nu mice are more resistant than intact BALB/c.nu/+ mice, proportion of nu/nu survivors is not affected by administration of amicarbalide whereas majority of nu/+ mice develop long-lasting resistance to infection, data suggest that T cell dependent activities are involved in acceleration of parasitaemia and in development of drug-assisted resistance; nu/nu mice are not more resistant than nu/+ mice to *Plasmodium berghei*

Immunity

Mitchell, G. F.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 64-78
Ascaris suum, mouse strain variation in susceptibility, resistance to second infection, comparison of susceptibility of normal vs. hypothyroid nu/nu mice, appearance of antibodies in infected mice reacting with phosphorylcholine

Immunity

Mitchell, G. F.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 95-104
Nippostrongylus brasiliensis infections in hypothyroid nu/nu mice

Immunity

Mitchell, G. F.; et al., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 187-211
Mesocestoides corti, examination of host immunoglobulins (in particular, antiparasite antibodies) associated with parasite larvae, comparison in hypothyroid vs. intact mice

Immunity

Mitchell, G. F.; Goding, J. W.; and Rickard, M. D., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 165-186
Taenia taeniaeformis (*Cysticercus fasciolaris*), mice, antibodies and complement as factors influencing susceptibility/resistance; markedly increased susceptibility of certain complement-deficient mouse strains (in particular, males), of hypothyroid mice, and of cyclophosphamide-treated mice; impressive protective activity of immune serum

Immunity

Mitchell, G. F.; and Lewers, H. M., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 235-240
Ascaris suum, *Nippostrongylus brasiliensis*, mice, inhibition of an anti-DNP antibody response with DNP-Ficoll containing phosphorylcholine, results suggest that parasites may 'utilize' molecules such as phosphorylcholine to induce state of selective tolerance to parasite antigens as a mechanism for facilitating survival

Immunity

Mitchell, G. H.; et al., 1976, *Parasitology*, v. 72 (2), 149-162
Plasmodium falciparum, techniques for in vitro cultivation, immune IgG-mediated inhibition of development in vitro

Immunity

Mkwanzani, J. B.; Franks, D.; and Baker, J. R., 1976, *Nature, London* (5542), v. 259, 403-404
Trypanosoma dionisii, destruction of antibody-coated trypanosomes by normal human lymphoid cells

Immunity

Moore, D. L.; Grove, D. I.; and Warren, K.S., 1977, *J. Path.*, v. 121 (1), 41-50
Schistosoma mansoni egg granuloma in mice (exper.), dynamics of cellular infiltrates in granuloma and relationship to host immunologic state; sensitization with egg antigen accelerated granuloma formation

Immunity

Moorhouse, D. E., 1975, *Ztschr. Parasitenk.*, v. 48 (1), 65-71
Argas persicus, larvae, feeding on chickens, histological studies, penetration by lysis, foreign body reaction, whole blood as diet throughout feeding, emigration of heterophils to surround mouthparts and mask them against foreign body reaction, example of adaptation tolerance; immunological response to salivary secretions not suppressed

Immunity

Moghbel, R.; and Denham, D. A., 1977, *J. Helminthol.*, v. 51 (4), 301-308
Strongyloides ratti, primary and secondary infections in small intestine of rats: course of infections; changes in size of worms; distribution and migration of adult worms in intestine

Immunity

Morris, N.; et al., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 557-558
 [Demonstration]
E[ntamoeba] histolytica antigen uptake by lymphocytes from infected and normal subjects compared

Immunity

Moriearty, P. L.; and Brito, E., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 717-722
Schistosoma mansoni, elution of antischistosome antibodies from kidney tissue obtained from schistosomiasis and control cases, IgG eluted from infected cases showed specific activity against schistosome antigen while those from controls showed no fluorescence

Immunity

Morrow, D. T.; Wescott, R. B.; and Davis, W. C., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 382-386
Trypanosoma cruzi in mice (exper.), long-term treatment with Bayer 2502 did not destroy host's ability to withstand challenge infections and indicated that host "cured" of acute infection may be resistant to reinfection

Immunity

Mott, K. E.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 552-562
 epidemiology and household distribution of seroreactivity to *Trypanosoma cruzi* in defined rural population in endemic area, analysis of seropositivity with age and sex of host and possible correlations with immunologic factors: Brazil

Immunity

Moulton, J. E.; Coleman, J. L.; and Gee, M. K., 1975, *Am. J. Vet. Research*, v. 36 (4), 357-366
Trypanosoma equiperdum, pathogenesis in rabbits, lesions in skin, spleen, lymph nodes, and kidney, amyloid deposition, serum and tissue IgM and IgG, fluorescent antibody studies, agglutination test, depressed antibody response to ovine erythrocytes

Immunity

Moulton, J. E.; and Sollod, A. E., 1976, *Am. J. Vet. Research*, v. 37 (7), 791-802
Trypanosoma brucei, calves (exper.), clinical changes, parasitemia, antibody titration (indirect fluorescent antibody technique), IgG and IgM, histopathology

Immunity

Movsesijan, M.; et al., 1975, *Research Vet. Sc.*, v. 18 (2), 171-174
 IgG immunoglobulin levels and indirect fluorescent antibody titres to *Fasciola hepatica* digestive tract antigens in exper. infected lambs, antibody activity demonstrated in IgG-1 but not in IgG-2

Immunity

Mugera, G. M.; Mworira, G. M.; and Munyua, W. K., 1973, *Bull. Epizoot. Dis. Africa*, v. 21 (4), 501-505
Theileria parva, calves (exper.), transmission by *Rhipicephalus appendiculatus*, reduction of parasites and, in some cases, complete recovery and immunity after early treatment with chlortetracycline hydrochloride

Immunity

Muhammed, S. I.; Lauerman, L. H., jr; and Johnson, L. W., 1975, *Am. J. Vet. Research*, v. 36 (4), Part 1, 399-402
Theileria parva, cattle experimentally infected with standardized suspensions of infected *Rhipicephalus appendiculatus*, treatment with immune serum or concentrated immune globulins, no effect on establishment of infection nor clinical and hematologic changes, immunity seen in cattle recovered from East Coast fever is therefore probably cell-mediated

Immunity

Mukerji, K.; et al., 1976, *Indian J. Med. Research*, v. 64 (11), 1611-1619
Ascaris lumbricoides var. hominis, purification and protein properties of trypsin inhibitor located in muscular and cuticular layers of parasite, speculations on immunologic role

Immunity

Mullin, S. W.; Colley, F. C.; and Welch, Q. B., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 93-98
Eimeria spp., mark-release-recapture techniques used to study ecology of coccidia in Malaysian rain-forest mammals, seasonal variations, reinfection records, immunity: Bukit Lanjan Forest Reserve, West Malaysia

Immunity

Munday, B. L.; et al., 1975, *Research Vet. Sc.*, v. 18 (2), 218-219
Toxoplasma gondii, sera from aborted or newborn lambs with congenital infections fractionated on Sephadex G-200, sera and fractions tested for antibodies using indirect fluorescent antibody test, most of antibody found in IgG fraction

Immunity

Murray, M.; and Urquhart, G. M., 1977, *Advances Exper. Med. and Biol.*, v. 93, 209-241
 African trypanosomiasis, immunoprophylaxis, review: cattle and sheep, laboratory animals; chemotherapeutic agents and immunity, nature of protective antigen, effector mechanisms in protection, manipulation of host resistance

Immunity

Murrell, K. D.; Dean, D. A.; and Stafford, E. E., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (6, pt. 1), 955-962
 resistance to infection with *Schistosoma mansoni* after immunization with worm extracts or live cercariae: role of cytotoxic antibody in mice and guinea pigs

Immunity

Musoke, A. J.; et al., 1975, *Immunology*, v. 29 (5), 845-853

Taenia taeniaeformis, passive transfer of resistance to newborn rats via colostrum and milk (not prenatal transmission of antibodies), role of colostrally derived antibodies of defined immunoglobulin classes (evidence of protective activity of γ A, but 7S probably primarily responsible)

Immunity

Musoke, A. J.; and Cox, H. W., 1977, *J. Parasitol.*, v. 63 (3), 464-470

Plasmodium chabaudi, adaptation to rat host, immune responses in rats and in mice to rat strain, resistance to challenge with homologous and heterologous strains and to *Babesia rodhaini*, elaboration of soluble serum antigen in mice infected with rat strain

Immunity

Musoke, A. J.; and Williams, J. F., 1975, *Immunology*, v. 29 (5), 855-866

Taenia taeniaeformis, rats, sequential appearance of protective immunoglobulins studied in passive transfer experiments, mechanism of action of 7Sy2a antibodies, susceptibility of early postconcoispherical stages to antibody-mediated attack was complement dependent

Immunity

Musoke, A. J.; and Williams, J. F., 1976, *Internat. J. Parasitol.*, v. 6 (3), 265-269

intraoperitoneally implanted metacystodes of *Taenia taeniaeformis* or *T. crassiceps* (but not *Echinococcus granulosis* cysts) provoked high resistance to oral challenge with *T. taeniaeformis* eggs, resistance passively transferred with serum (IgG₁ and IgM most effective), cysticerci implanted into rats with hepatic infections were killed and encapsulated, repeated inoculation of immune serum had no effect on survival of implanted cysticerci

Immunity

Musumeci, S.; D'Agata, A.; and Fischer, A., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 261 [Letter]

human leishmaniasis, presence of immunoglobulin or complement on red cell surface, possible immune mechanism responsible for shortened red cell survival during active disease

Immunity

Musumeci, S.; Fischer, A.; and Pizzarelli, G., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 176-177

Leishmania donovani, persistence of dysproteinaemia in persons treated and clinically cured of infections, possible explanations discussed

Immunity

Nappi, A. J., 1975, *Invert. Immun.* (Maramorosch and Shope), 293-326

parasite encapsulation in insects, review

Immunity

Neal, R. A.; and Miles, R. A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (1), 21-27

Leishmania enriettii in guinea pigs (exper.), relationships between sodium stibogluconate therapy and developing immunity in host

Immunity

Neilson, J. T. M., 1976, *Tropenmed. u. Parasitol.*, v. 27 (2), 233-237

a comparison of the acquired resistance to *Dipetalonema viteae* stimulated in hamsters by trickle versus tertiary infections

Immunity

Nelson, D. S.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 254-255

Litomosoides carinii-infected rats, pleural exudate cellular morphology

Immunity

Nepote, K. H.; Pawlowski, Z. S.; and Soulsby, E. J. L., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 241-247

Taenia saginata, human, immunoglobulin levels, only IgE consistently showed a significant difference between infected and uninfected individuals and in infected individuals with respect to treatment

Immunity

Neva, F. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 211-215

Plasmodium falciparum, immunity to induced malaria, workshop report

Immunity

Newburger, P. E.; Hamaoka, T.; and Katz, D. H., 1974, *J. Immunol.*, v. 113 (3), 824-829

effect of bacterial lipopolysaccharide on hapten-specific IgG and IgE response to DNP-*Ascaris suum* primed spleen cells, analysis in adoptive transfer system in mice shows that adjuvant effect is due to action on carrier-specific T cell function

Immunity

Ngu, J. L.; and Blackett, K., 1976, *Trop. and Geogr. Med.*, v. 28 (2), 111-120

Onchocerca volvulus in humans, immunologic studies attempting to delineate role of humoral and cellular immune response in the heterogeneity of onchocercal lesions

Immunity

Nguyen, B. T.; and Stadtsbaeder, S., 1976, *Infect. and Immun.*, v. 13 (3), 884-889

spontaneous interaction in vitro between lymphocytes and syngeneic peritoneal macrophages of normal as well as *Toxoplasma gondii*-immune mice

Immunity

Ngwenya, B. Z., 1977, *Internat. J. Parasitol.*, v. 7 (1), 41-45

Trichinella spiralis, effect of lactation on worm expulsion in (1) lactating, (2) induced agalactic post-parturient, (3) previously sensitized, and (4) mice sensitized during lactation, results indicate lactation suppressed either expression or induction of immunity

Immunity

Niec, R.; et al., 1976, *Gac. Vet., Buenos Aires* (315), v. 38, 457-466
gastrointestinal nematodes, sheep, effect of thiabendazole drenches on buildup of host resistance; might be advisable to accept moderate degree of parasitism in sheep up to 9-10 months of age, avoid unnecessary ant-helminthic treatment that could prevent normal buildup of resistance

Immunity

Nielsen, K., 1976, *Pathophysiol. Parasit. Infect.*, 23-40
plasma protein metabolism in pathophysiology of parasitic infection, review

Immunity

Nogueira, N.; and Cohn, Z., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 194-203
Trypanosoma cruzi, uptake and intracellular fate in normal and activated macrophages, workshop report

Immunity

Nogueira, N.; Gordon, S.; and Cohn, Z., 1977, *J. Exper. Med.*, v. 146 (1), 172-183
normal unstimulated macrophages can be activated in vitro by lymphocyte product(s) derived from interaction of sensitized peritoneal or spleen cells with *Trypanosoma cruzi* antigen, activation is expressed as secretion of high levels of macrophage plasminogen activator and requires thymus-derived lymphocytes

Immunity

Nordstoga, K.; and Westbye, K., 1976, *Acta Path. et Microbiol. Scand., Sect. A., Path.*, v. 84A (3), 291-296
pathologic findings in polyarteritis nodosa associated with *Nosema cuniculi* in blue foxes, possible relationship to immunological disturbance

Immunity

Nussenzweig, R. S.; et al., 1973, *J. Immunol.*, v. 110 (2), 600-601
Plasmodium cynomolgi, *P. falciparum*, production of antibodies against sporozoites in rats, no cross-reaction between two species

Immunity

Oberlin, U. P.; and Weiss, N., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1178-1182
Schistosoma mansoni, hamsters (exper.), cell-mediated immune response to soluble egg antigens (SEA) determined by measuring size of granuloma formations in vivo and lymphocyte transformation reaction in vitro; humoral immune response estimated by measuring anti-SEA antibody titer in serum

Immunity

O'Dell, D. S.; et al., 1976, *Biochem. Soc. Tr.*, v. 4 (1), 124-125
Naegleria gruberi, amoeboid vs. flagellate locomotory phenotypes, cell surface receptors, reactions with antibodies, lectins, and cationized ferritin

Immunity

Ogilvie, B. M., 1976, *Ztschr. Immunitaetsforsch.*, v. 152 (2), 105-106 [Abstract]
immunological responses in nematode infections

Immunity

Ogilvie, B. M.; et al., 1977, *Immunology*, v. 32 (4), 521-528
Nippostrongylus brasiliensis, rats, cellular requirement for worm expulsion, results suggest that following antibody damage this nematode is expelled by nonimmunoglobulin-bearing lymphocytes which are effective in the absence of newly formed cells derived from the cell recipients

Immunity

Ogilvie, B. M.; and Love, R. J., 1974, *Transplant. Rev.*, v. 19, 147-169
immune mechanisms in *Nippostrongylus brasiliensis*-rat model, co-operation between antibodies and cells in immune expulsion, review

Immunity

Ogilvie, B. M.; Mackenzie, C. D.; and Love, R. J., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 61-67
Nippostrongylus brasiliensis, rats, lymphocytes and eosinophils in immune response to initial and subsequent infections, workshop report

Immunity

Ohman, J. L., jr.; and Bloch, K. J., 1972, *J. Immunol.*, v. 108 (6), 1637-1646
Nippostrongylus brasiliensis, rats, effect of IgE on passive cutaneous anaphylactic reaction mediated by IgG_a antibodies

Immunity

O'Kelly, J. C.; and Spiers, W. G., 1976, *J. Parasitol.*, v. 62 (2), 312-317
Boophilus microplus, infestation of British vs. zebu calves in early life (nat. and exper.), differences in resistance, changes in blood composition

Immunity

Okudaira, H.; and Ishizaka, K., 1973, *J. Immunol.*, v. 111 (5), 1420-1428
spleen cells from mice immunized with dinitrophenylated derivative of *Ascaris suum* extract (DNP-Asc) cooperated with ovalbumin-specific helper cells to form anti-DNP IgE antibody after DNP-ovalbumin administration

Immunity

Okumura, K.; and Tada, T., 1971, *J. Immunol.*, v. 107 (6), 1682-1689
Ascaris suum, rats, homocytotropic antibody response, inhibition by thymocytes and spleen lymphocytes from hyperimmunized donors

Immunity

Okumura, K.; and Tada, T., 1974, *J. Immunol.*, v. 112 (2), 783-791
Ascaris suum, rats, chemical and physico-chemical characterization of antigen-specific inhibitory T cell factor in hapten-specific homocytotropic antibody response

Immunity

- Okumura, K.; Tada, T.; and Ochiai, T., 1974, *Immunology*, v. 26 (2), 257-268
Ascaris suum, rats, time and dose of anti-thymocyte serum administration are crucial factors in determining subsequent suppressed or enhanced reagenic antibody responses

Immunity

- Omata, Y.; and Suzuki, N., 1975, *Research Bull. Obihiro Univ.*, s. I, v. 9 (2), 265-272
Toxoplasma gondii, humoral antibody responses, appearance of IgM and IgG antibodies in adult female rats and their infants; transmission of infection from chronically infected rats to their fetuses and infants, no congenital toxoplasmosis detected

Immunity

- Omata, Y.; and Suzuki, N., 1975, *Research Bull. Obihiro Univ.*, s. I, v. 9 (3), 473-482
Toxoplasma gondii-infected rats, subpopulations of T- and B-lymphocytes in spleen, thymus, and peripheral blood, compared with healthy rats

Immunity

- Omland, T.; Tønjum, A.; and Frentzel-Beyme, B. R., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 372-376
Toxoplasma gondii, prevalence survey for presence of antibodies to toxoplasmosis in native Liberians using the Sabin-Feldman dye test, differing habitats

Immunity

- O'Neill, P. A.; and Parfitt, J. W., 1976, *Vet. Rec.*, v. 98 (16), 321-323
Isospora suis, minimal disease pig herd, observations under non-experimental conditions, oocysts with sporoblasts recovered in infected pig feces 24 hours after collection, prepatent and patent periods, development of active acquired immunity following infection not affected by stress of farrowing

Immunity

- Ooms, L., 1975, *Vlaams Diergeneesk. Tijdschr.*, v. 44 (3), 95-118
 strongyles, horses, epidemiology, cycles, pathogenesis, symptoms, control, diagnosis, immunity, review

Immunity

- Opuni, E. K.; and Muller, R. L., 1975, *J. Helminth.*, v. 49 (3), 199-204
Spirometra theileri, mice, attempted immunization with 3 procedures (antigen plus adjuvant, antigen alone, active infection), none conferred absolute immunity but gave some protection, serological and histological findings indicate involvement of both cellular and humoral elements

Immunity

- Orr, T. S. C.; Riley, P. A.; and Doe, J. E., 1972, *Immunology*, v. 22 (2), 211-217
Nippostrongylus brasiliensis-infected rats, time course of potentiated reagin response to egg albumin

Immunity

- Ortiz-Ortiz, L.; et al., 1975, *Clin. Immunol. and Immunopathol.*, v. 4 (1), 127-134
 patients with amebic abscess of liver, diminished cell-mediated immunity to *Entamoeba histolytica* antigens when tested by skin tests and for migration-inhibition factor production, skin reactions to unrelated antigen were normal, 10 days after hospital discharge cell-mediated immune responses to *E. histolytica* antigen were normal, antibodies were present in sera at all stages

Immunity

- Ortiz-Ortiz, L.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (2), 232-242
Trypanosoma cruzi-infected mice, development of nonspecific resistance to challenge with *Listeria monocytogenes*, association with increased mononuclear phagocytic activity

Immunity

- Ortiz-Ortiz, L.; Gonzalez-Mendoza, A.; and Lamoyi, E., 1975, *J. Immunol.*, v. 114 (4), 1424-1425
Trypanosoma cruzi, mice, nonspecific immunization with BCG elicited significant protection

Immunity

- Osaki, H.; et al., 1973, *J. Protozool.*, v. 20 (4), 520
 in vitro protective responses of lymphoid cells from *Trichomonas foetus*-immunized mice

Immunity

- Ottesen, E. A.; Smith, T. K.; and Kirkpatrick, C. H., 1975, *Internat. Arch. Allergy and Applied Immunol.*, v. 49 (3), 396-410
Trichinella spiralis, mice, chronic infection, cellular immune responsiveness, sequential development of antigen-reactive cells in various lymphoid cell populations, antibody responses (haemagglutination titers, homocytotropic antibody)

Immunity

- Otto, G. F., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 963-980
 insect-borne nematodes, immunology, review

Immunity

- Otto, G. F.; et al., 1976, *J. Am. Vet. Med. Ass.*, v. 168 (7), 605-607
Dirofilaria immitis, dogs (exper.), number of circulating microfilariae is not an index of the number of adult heartworms or the severity of disease, reduced numbers of microfilariae per adult occur with increased numbers of adults, possible mechanisms

Immunity

- Ottolenghi, A.; et al., 1977, *Infect. and Immun.*, v. 15 (1), 13-18
Angiostrongylus cantonensis, nonsensitized and sensitized rats after challenge, phospholipase B activity in lungs and brains, eosinophilia in bone marrow, results support hypothesis that inflammation, elevated phospholipase B activity, and reduction in worm burden are causally related

- Immunity**
Overstreet, R. M., 1977, J. Parasitol., v. 63 (5), 780-789
Poecilancistrum caryophyllum in Cynoscion nebulosus, seasonal incidence and intensity, relation of infections to salinity and temperature of water, host length and host sex, common infection sites, effect of plerocercoids on host, possible immune response: Gulf of Mexico
- Immunity**
Packer, D. E., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 15 [Demonstration]
Syngamus trachea, chicks (exper.), relationships between size of challenge infection, worm burden and egg production
- Immunity**
Parashar, A.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 474-480
Plasmodium berghei, mice, passive transfer experiments confirm that protection against infection involves both humoral and cellular immune reactions and response to 'processed antigen' produced by sensitized cells, possibly macrophages
- Immunity**
Parodi, A. S.; et al., 1971, Medicina, Buenos Aires, v. 31 (5), 369-371
Trypanosoma cruzi, human volunteers injected with experimental immunizing antigen (disrupted epimastigotes), humoral antibody response and local reactions
- Immunity**
Parrott, D. M. V.; and Ferguson, A., 1974, Immunology, v. 26 (3), 571-588
mesenteric lymph node cells from donors infected with Nippostrongylus brasiliensis used in investigating selective migration of lymphocytes within mouse small intestine
- Immunity**
Partono, F.; and Cross, J. H., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (4), 472-476
Toxoplasma gondii, comparative survey of Indonesian and Chinese medical students for prevalence of antibodies to toxoplasmosis: Jakarta, Indonesia
- Immunity**
Pasvol, G.; and Weatherall, D. J., 1977, Brit. J. Haematol., v. 36 (3), 445-446 [Abstract]
P[lasmodium] falciparum, host resistance to infection probably related to genetics and acquired alterations in red blood cells
- Immunity**
Patton, S.; and Drudge, J. H., 1977, Am. J. Vet. Research, v. 38 (12), 2059-2066
Strongylus vulgaris, ponies given repeated small doses of infective larvae, acquired resistance against challenge exposure; clinical and hematologic responses, corticosteroid and/or antibiotic therapy did not alter immune response
- Immunity**
Pautrizel, A. N.; et al., 1977, Compt. Rend. Acad. Sc., Paris, v. 284, s. D (21), 2187-2190
Trypanosoma equiperdum, influence of ambient temperature on development in mice, depends on individual and strain of host, hyperthermia may stimulate host defense mechanisms
- Immunity**
Pautrizel, R.; et al., 1975, J. Protozool., v. 22 (3), 84A [Abstract]
Trypanosoma equiperdum, rabbits, control by exposure to magnetic field and electromagnetic waves, immunological reactions, resistance to reinfection
- Immunity**
Pavri, K. M., 1976, Indian J. Med. Research, v. 64 (5), 713-729
discussion of possible role of helminth parasites and viruses in etiology of dengue hemorrhagic fever and shock syndrome
- Immunity**
Pelster, B., 1976, Ztschr. Parasitenk., v. 50 (2), 175-176
Toxoplasma gondii, infected mice, effect of antithymus serum
- Immunity**
Penev, P.; Nikolova, M.; and Stefanova, M., 1975, Vet. Med. Nauk., v. 12 (9), 46-50
Eimeria tenella, infection of chickens previously infected with Marek's disease, inability to build up stable immunity against subsequent Eimeria tenella infection
- Immunity**
Perez, H. A.; and Smithers, S. R., 1977, Internat. J. Parasitol., v. 7 (4), 315-320
Schistosoma mansoni, adherence of macrophages to schistosomula in vitro after sensitization with immune serum, this reaction provoked tegumental damage
- Immunity**
Perez, M.; Carson, C. A.; and Ristic, M., 1977, Vet. Parasitol., v. 3 (2), 161-167
Babesia microti, hamsters, cell-mediated immune response measured by leukocyte migration inhibition test, comparison with humoral antibody measurements using indirect fluorescent antibody test
- Immunity**
Perrudet-Badoux, A.; and Binaghi, R. A., 1977, Ann. Immunol., v. 128C (1-2), 243-244
Trichinella spiralis, antibody-mediated adherence of rat peritoneal exudate cells to larvae
- Immunity**
Perrudet-Badoux, A.; and Binaghi, R. A., 1977, Compt. Rend. Acad. Sc., Paris, v. 284, s. D (6), 497-498
Trichinella spiralis, antibody-mediated adherence of peritoneal exudate cells to larvae

Immunity

Perrudet-Badoux, A.; Binaghi, R. A.; and Boussac-Aron, Y., 1976, *Immunochemistry*, v. 13 (5), 443-445

Trichinella spiralis-infected rats, quantitative study of production of different classes of immunoglobulins

Immunity

Perrudet-Badoux, A.; Binaghi, R. A.; and Boussac-Aron, Y., 1977, *Ann. Immunol.*, v. 128C (4-5), 965-966 [Abstract]

Trichinella spiralis, rats, enhanced antibody response to unrelated antigen

Immunity

Pesson, B.; and Leger, N., 1977, *Ann. Parasitol.*, v. 52 (1), 78-80

Hymenolepis nana var. *fraterna*, fate in refractory host (*Leucophaea maderae*), inability of parasite to cross host intestinal wall and host hemocytic response as two components of host defensive reaction, former not suppressed by radiation of host but latter is suppressed

Immunity

Psychl, L.; Zastera, M.; and Dostal, V., 1976, *J. Hyg., Epidemiol., Microbiol. and Immunol.*, v. 20 (2), 248-251

Toxoplasma, human nodular, pathology, clinical course, immunity, 6-year study of 93 subjects: Czechoslovakia

Immunity

Pflugfelder, O., 1977, *Wirtstierreaktionen auf Zooparasiten*, 378 pp., illus.

immunological reactions of animals to parasitism

Immunity

Phillips, R. S.; and Wakelin, D., 1976, *Exper. Parasitol.*, v. 39 (1), 95-100

mice concurrently infected with *Babesia* and *Trichuris muris*, marked immunodepression, normal immune expulsion of nematode delayed; *Babesia* infections had little effect on expulsion of challenge infections of *T. muris* from previously immunized mice; *Babesia* infections exerted profound immunodepressive effect on agglutinating antibody response to sheep red blood cells

Immunity

Phillips, S. M.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 48-53

Schistosoma mansoni, rats, cellular and humoral immune response, review of work with interpretations, workshop report

Immunity

Phillips, S. M.; et al., 1977, *J. Immunol.*, v. 118 (2), 594-599

Schistosoma mansoni in congenitally athymic (nude) mice, thymic dependency of eosinophilia, granuloma formation, and host morbidity

Immunity

Phillips, S. M.; and Colley, D. G., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 657-659

report of workshop on the immunology of *Schistosoma mansoni* infection

Immunity

Phillips, S. M.; and Colley, D. G., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 826-828

Schistosoma mansoni, immunology, Elvio H. Sadun Memorial Workshop, annual report

Immunity

Phillips, S. M.; Reid, W. A.; and Sadun, E. H., 1977, *Cellular Immunol.*, v. 28 (1), 75-89

Schistosoma mansoni, rats, development of strong and effective immunity within 1 week following initial exposure, immunity stimulated by and directed against early stage-specific forms of infection, mechanisms not clear but partially mediated through development of specific protecting immunoglobulin

Immunity

Platzer, E. G., 1970, *Immun. Parasitic Animals*

(Jackson, Herman and Singer), v. 2, 1009-1019
trematodes of liver and lung, immunology, review

Immunity

Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, *Immunology*, v. 32 (5), 681-687

Plasmodium spp., *Babesia microti*, mouse helper T-cell response to parasites measured by using them as carriers for a standard hapten, results show extensive cross-reaction between the 4 parasites as carriers apparently unrelated to known serological cross-reactions but are against the idea that helper T-cells are exclusively responsible for resistance

Immunity

Poels, L. G., 1977, *Exper. Parasitol.*, v. 41 (1), 85-88

Plasmodium berghei berghei-infected mice, polyribosome profiles in spleen, results suggest spleen not involved in synthesis of antibodies against parasitic antigen during course of primary lethal infection with *P. berghei*

Immunity

Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 182-193

Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection

Immunity

Poels, L. G.; and van Niekerk, C. C., 1977, *Exper. Parasitol.*, v. 42 (1), 235-247

Plasmodium berghei-infected mice, depression of immune responsiveness to sheep erythrocytes, tolerance induced during period of severe immunosuppression, responsiveness restored with chloroquine cure, elevated levels of nonspecific antibodies produced during immunosuppression, possible relationship between hyperimmunoglobulinemia and immunosuppression

Immunity

- Ponnudurai, T.; Denham, D. A.; and Rogers, R., 1975, *J. Helminth.*, v. 49 (1), 25-30
Brugia pahangi microfilariae transfused from infected to other cats, wide variation in longevity in normal cats, not detected in immunized recipients after 18 hours

Immunity

- Poulain, J.; et al., 1977, *Ann. Immunol.*, v. 128C (1-2), 245-247
Nippostrongylus brasiliensis, rats, synthesis of hemagglutinating antibodies in intestinal secretions, detected before serum antibodies, possible role of local antibodies in mechanism of worm expulsion

Immunity

- Poulain, J.; Luffau, G.; and Pery, P., 1975, *Compt. Rend. Acad. Sc., Paris*, v. 281, s. D, Sc. Nat. (23), 1933-1934
Nippostrongylus brasiliensis infected rats, formation of hemagglutinating antibodies in serum and intestinal secretions; local antibodies, new immune mechanism

Immunity

- Poulain, J.; Luffau, G.; and Pery, P., 1976, *Ann. Immunol.*, v. 127C (2), 215-224
Nippostrongylus brasiliensis, rats, kinetics of haemagglutinin production in serum vs. intestinal secretions, antibody response to low doses of infecting larvae, nature of immunoglobulin classes involved

Immunity

- Pouliot, P.; Viens, P.; and Targett, G. A. T., 1977, *Clin. and Exper. Immunol.*, v. 27 (3), 507-511
Trypanosoma musculi, transfer of spleen cells to T cell-deprived mice restored their ability to control infection, treatment of cells in vitro with anti- θ serum did not impair their ability to restore immunocompetence

Immunity

- Preston, P. M.; Dumonde, D. C., 1976, *Clin. and Exper. Immunol.*, v. 23 (1), 126-138
Leishmania tropica in CBA mice as experimental model of leishmaniasis in man: relationship of inoculum dose to size and duration of lesions, antibody production, and delayed hypersensitivity responses; infections manifest both during and after healing stages; immunization with sonicated promastigotes; lymphoid cells from immune mice conferred protection upon recipients

Immunity

- Prestwood, A. K.; and Nettles, V. F., 1977, *J. Parasitol.*, v. 63 (6), 974-978
Parelaphostrongylus andersoni, repeated low-level infection of *Odocoileus virginianus*, clinical, parasitologic, and pathologic findings, apparent production of active immunity, results suggest that wild deer become infected by isolated chance encounters with infected gastropods

Immunity

- Pringle, G., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (2), 205-224
Litomosoides carinii in *Praomys* (*Mastomys*) *natalensis* as laboratory host, course of infection, effects of infection and superinfection on host and on cells of pleural exudate, effect of splenectomy

Immunity

- Przyjałkowski, Z.; et al., 1976, *Bull. Acad. Polon. Sc., Cl. II., s. Sc. Biol.*, v. 24 (12), 751-755
Trichinella spiralis, antibody response of germfree, gnotobiotic, and conventional mice compared

Immunity

- Purnell, R. E.; et al., 1975, *Trop. Animal Health and Prod.*, v. 7 (3), 133-137
Theileria parva-infected ticks (*Rhipicephalus appendiculatus*), establishment of an experimental field population for field challenge of cattle (*Bos taurus*) immunized against East Coast fever

Immunity

- Purnell, R. E.; et al., 1976, *Vet. Rec.*, v. 99 (21), 415-417
Babesia divergens and *Ehrlichia phagocytophila*, natural mixed infection, agents isolated, splenectomised calves, reactions after inoculation singly, simultaneously or sequentially, *B. divergens* infection delayed by *E. phagocytophila*: Eire

Immunity

- Purtilo, D. T.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 229-232
 parasitized children with protein-calorie malnutrition, complete blood count, serum immunoglobulin concentration, significant relationship between intensity of parasitism and Ig levels: Brazil

Immunity

- Purvis, A. C., 1977, *Parasitology*, v. 75 (2), 197-205
Babesia microti, mice, temporary immunodepression of humoral immune response to sheep red blood cells, cell-mediated responses apparently unaffected, phagocytic activity is increased

Immunity

- Quintal, R. E.; and Polanco, G. G., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (1), 176-178
Trypanosoma cruzi, studies show that feeding preferences of vector *Triatoma dimidiata maculipennis* have no bearing on relative lack of antibodies to *Trypanosoma cruzi* in humans in Yucatan

Immunity

Radermecker, M.; et al., 1974, Internat. Arch. Allergy and Applied Immunol., v. 47 (2), 285-295

various human helminthic or protozoal infections, serum IgE concentration, IgE level often raised in parasitosis with prominent tissue phases and remains normal with helminths restricted to lumen of digestive tract, IgE level tends to increase significantly and rapidly following specific treatment and then to decrease slowly and return to normal in a few months

Immunity

Rajasekariah, G. R.; and Howell, M. J., 1977, J. Helminthol., v. 51 (4), 289-294

Fasciola hepatica, recovery of juveniles from various sites in immune and control rats, gut as barrier to metacercariae of challenge infection

Immunity

Ramalho-Pinto, F. J.; et al., 1976, Clin. and Exper. Immunol., v. 26 (2), 327-333

Schistosoma mansoni, carrier effect used to assay 11 antigenic preparations for helper T-cell priming against surface components of schistosomula, mice

Immunity

Ramalho-Pinto, F. J.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 276

[Demonstration]

immunological response to surface components of schistosomes, induction of T-cell helper activity, mice

Immunity

Ramalho-Pinto, F. J.; Smithers, S. R.; and Playfair, J. D., 1977, Parasitology, v. 75 (2), xiii-xiv [Abstract]

Schistosoma mansoni, mice, rats, massive helper T-cell response 7-10 days after infection progressed, mice immunized with formalin-fixed schistosomula showed comparable activation but it was not followed by a depression, possible explanation

Immunity

Ramalho-Pinto, F. J.; Smithers, S. R.; and Playfair, J. H. L., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 293-294 [Demonstration]

Schistosoma mansoni, suppression of helper T-cell activity in infected mice (exper.), role in immune process remains unclear

Immunity

Ramalho-Pinto, F. J.; de Souza, J. B.; and Playfair, J. H., 1976, Nature, London (5544), v. 259, 603-604

Schistosoma mansoni, stimulation and suppression of response of mouse T cells to schistomules during infection

Immunity

Rank, R. G.; Roberts, D. W.; and Weidanz, W. P., 1977, Infect. and Immun., v. 16 (2), 715-716

Trypanosoma muscili in congenitally athymic nude mice, chronic infection with consistently elevated parasitemia, thymic reconstitution restores immunity

Immunity

Rao, B. V.; and Mittal, K. R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 476-480
hydatidosis in *Bubalus bubalis*, failure to detect antibodies with indirect hemagglutination, scolexo-precipitation, or gel diffusion tests

Immunity

Rao, B. V.; and Mittal, K. R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 481-486
buffalo hydatid cyst fluid, antigenicity studied in rabbits, lambs, buffalo, and zebu calves with indirect hemagglutination, scolexo-precipitation, and gel diffusion tests, compared with other antigen preparations

Immunity

Rao, V. G.; and Padma, M. C., 1975, Indian J. Exper. Biol., v. 13 (2), 168-171

Entamoeba histolytica, rats on low protein, low vitamin diet, increased susceptibility, poor immune response as shown by haemagglutination test

Immunity

Rau, M. E.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (2), 151-153

Echinococcus multilocularis, radical resection of large established subcutaneous cysts results in 20-fold increase in weight of intrathoracic metastases in cotton rats; animals whose subcutaneous cysts had been surgically removed were, however, still fully resistant to subsequent intraperitoneal challenging inoculation with protoscolices

Immunity

Rau, M. E.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (3), 195-198

Echinococcus multilocularis in *Sigmodon hispidus*, protoscolicidal activity of peritoneal cells and sera from hosts bearing large hydatid cysts, results suggest that phenomenon whereby established cysts suppress challenging inocula has an immunological component in which both humoral and cellular responses may participate

Immunity

Rebora Gutierrez, F.; et al., 1976, Neumol. y Cirug. Torax, v. 37 (3), 147-158

Echinococcus granulosus, bilateral pulmonary cysts in 17-year old girl, surgical excision, clinical aspects; general review of epidemiologic and immunologic aspects: Mexico

Immunity

Reid, J. F. S.; and Armour, J., 1975, J. Comp. Path., v. 85 (1), 163-170

Ostertagia circumcincta, breeding ewes, degree by which immune status varied on a seasonal basis (remained substantially immune to challenge), situation not altered by thiabendazole treatment

Immunity

Reid, W. M.; et al., 1977, Poultry Science, v. 56 (1), 66-71

coccidiosis, chicks, monensin, development of immunity dependent upon drug level, treatment time, and oocyst exposure

Immunity

- Reikvam, A., 1976, Acta Path. and Microbiol. Scand., v. 84C (2), 124-130
Toxoplasma gondii, mice, mechanism(s) of initiation and regulation of macrophage proliferation and activation, relationship to lymphocyte stimulation

Immunity

- Reikvam, A.; and Lorentzen-Styr, A. M., 1976, Nature, London (5560), v. 261, 508-509
Toxoplasma gondii, mice infected with Beverley strain and reinfected with RH strain, 14-18 months after challenge Toxoplasma with full virulence of RH strain could be isolated from some mice, in brains of others only immunizing (Beverley) strain could be found, implications for human infections

Immunity

- Reisen, W. K.; and Hillis, T. C., 1975, J. Parasitol., v. 61 (5), 937-940
Plasmodium berghei, failure to protect mice with footpad injections of killed parasites incorporated in complete Freund's adjuvant, possible explanations for failure to immunize

Immunity

- Remington, J. S.; Krahenbuhl, J. L.; and Mendenhall, J. W., 1972, Infect. and Immun., v. 6 (5), 829-834
activated macrophages from mice which were chronically infected with Toxoplasma gondii or Besnoitia jellisoni or which had received Freund complete adjuvant had enhanced capacity to kill intracellular Toxoplasma

Immunity

- Rezai, H. R.; Ardehali, S.; and Gettner, S., 1975, Ann. Trop. Med. and Parasitol., v. 69 (1), 29-33
Leishmania enriettii, L. tropica, quantification of growth inhibition activity of normal sera from humans, dogs, rabbits, guinea pigs, rats, sheep, cats, mice, and chickens

Immunity

- Rhodes, M. B.; et al., 1977, Exper. Parasitol., v. 42 (2), 356-362
Ascaris suum embryonated eggs, hatching in orally inoculated pigs, in ligated intestinal segments, and in isolated intestinal loops of pigs, immune status of pig had no effect on hatching

Immunity

- Richards, A. J.; et al., 1977, Internat. J. Parasitol., v. 7 (2), 153-158
Nippostrongylus brasiliensis, in vitro incubation with prostaglandin E₁, effect on glycolysis, on worm morphology, and on survival in vivo, results support view that prostaglandins play vital role in mechanism of worm expulsion

Immunity

- Richey, E. J.; et al., 1977, Am. J. Vet. Research, v. 38 (2), 169-170
Anaplasma marginale, cattle, resistance after chlortetracycline elimination of latent infections is similar to that after killed-antigen vaccination of animals with no record of infection

Immunity

- Richharia, V. S.; Jeska, E. L.; and Greve, J. H., 1975, J. Parasitol., v. 61 (6), 1113-1115
Ascaris suum, swine (exper.), demonstration of true delayed hypersensitivity responses

Immunity

- Rickard, M. D.; Coman, B. J.; and Cannon, R.M., 1977, Vet. Parasitol., v. 3 (1), 1-9
Taenia pisiformis, dogs, demonstration of age resistance but not of acquired immunity

Immunity

- Rickard, M. D.; White, J. B.; and Boddington, E. B., 1976, Austral. Vet. J., v. 52 (5), 209-214
oral challenge with Taenia ovis eggs using 3 levels of pasture contamination, lambs, immunization with T. ovis culture antigen prevented establishment of new cysticerci better than previous natural exposure but failed to stimulate complete immunological response, presence of T. hydatigena in lambs did not prevent subsequent infection with T. ovis

Immunity

- Ridley, D. S.; and Hedge, E. C., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 522-525
microfilariae of various spp., immunofluorescent reactions involving sheath, cuticle, and cytoplasm, relevance to immuno-evasive mechanisms: (1) microfilariae failed to adsorb non-specific immunoglobulins in contrast to other helminth larvae and non-blood protozoa; (2) sheath of Wuchereria bancrofti and Loa loa adsorbed specific A and B blood group antigens; (3) low titer reaction between microfilarial cytoplasm (L. loa and W. bancrofti) and host serum

Immunity

- Rieckmann, K. H.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 258-259 [Letter]
Plasmodium falciparum, sporozoite induced immunity in human using infected irradiated mosquitoes

Immunity

- Riemann, H. P.; et al., 1977, J. Am. Vet. Med. Ass., v. 171 (12), 1260-1264
Toxoplasma gondii, prevalence of Toxoplasma antibodies in sheep, higher incidence in breeding ewes than in lambs sent to market, management and environmental factors: California; Nevada; Idaho; Oregon

Immunity

- Ristic, M., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 831-870
babesiosis, theileriosis, immunology, review

Immunity

- Ristic, M., 1976, Vet. Parasitol., v. 2 (1), 31-47
intracellular blood protista: intraerythrocytic behavior, transfer, and circulatory clearance; survival and development within macrophages; persistence of organism in immunologically hostile host; immune responses and protection; serodiagnosis; vaccination

Immunity

- Ristic, M.; and Carson, C. A., 1977, *Advances Exper. Med. and Biol.*, v. 93, 151-188
bovine anaplasmosis, immunoprophylaxis, review: *Anaplasma marginale*, biologic properties, antigenic and serologic studies, persistence in immunologically hostile host, various immunogens, immune responses to inactivated *A. marginale* vaccines, immune response to live attenuated and virulent *A. marginale*, vaccination studies with attenuated *A. marginale*, proposed mechanism of protection induced by this vaccine, statistical analysis, application for prevention of anaplasmosis

Immunity

- Ristic, M.; and Nyindo, M. B. A., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 66-70
Anaplasma marginale, cows inoculated with attenuated vaccine, humoral (complement fixing and agglutinating antibodies) and cell-mediated (macrophage migration inhibition test) immune responses, results demonstrate correlation between cell-mediated immunity and protection

Immunity

- Ritts, R. E., jr., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 423-438
mammalian immunity, general mechanisms and principles, review

Immunity

- Rivera-Ortiz, C.-I.; and Nussenzweig, R., 1976, *Exper. Parasitol.*, v. 39 (1), 7-17
Trichinella spiralis, differential ability of several inbred mouse strains of different histocompatibility locus specificities to produce reagin and IgG₁ antibodies in response to infection, relationship between production of anaphylactic antibodies and larval and adult recoveries, stage of life cycle which induces antibody formation

Immunity

- Roberts, C. O.; Chaparas, S. D.; and McLaughlin, D., 1976, *J. Protozool.*, v. 23 (2), 34A [Abstract]
Toxoplasma gondii, mammalian and avian cell cultures tested to determine ability to support growth and plaque induction, inhibition of plaque formation by lincocin, sulfisoxazole, cleocin, and aureomycin and by anti-*Toxoplasma* antibody

Immunity

- Roberts, C. O.; Chaparas, S. D.; and McLaughlin, D., 1976, *Tr. Am. Micr. Soc.*, v. 95 (3), 470-482
Toxoplasma gondii, plaque assay technique used to (1) select best tissue culture system for studying progress of infection, (2) assess effect of drugs and antibiotics, (3) observe effect of immune sera on tissue culture infection, and (4) investigate cellular hypersensitivity by in vivo and in vitro systems

Immunity

- Roberts, D. W.; et al., 1977, *Infect. and Immun.*, v. 16 (3), 821-826
Plasmodium berghei yoelii produced fatal infection in nude mice or in mice made B cell deficient by treatment with anti- μ -chain serum, malaria recrudesced in Nu/Nu mice after drug termination of acute disease, recrudescence prevented by thymic grafting or treatment with hyperimmune serum, data suggest that crucial role of thymus is to provide helper function in production of protective antibody

Immunity

- Roberts, T. M.; and Thorson, R. E., 1977, *J. Parasitol.*, v. 63 (5), 849-853
Nippostrongylus brasiliensis, characterization of pheromone which attracts females (lipid fraction of excretory and secretory products of both males and females), that from immune-damaged females was not attractive

Immunity

- Roberts-Thomson, I. C.; et al., 1976, *J. Immunol.*, v. 117 (5), pt. 2, 2036-2037
Giardia muris, mice, prior infection results in resistance to subsequent challenge

Immunity

- Robins, R. A.; et al., 1976, *J. Parasitol.*, v. 62 (1), 171-172
Brugia pahangi-infected and uninfected *Meriones unguiculatus*, development of markers for determining frequency of Fc- and complement-receptor lymphocyte subpopulations, usefulness for immunological evaluation of jird

Immunity

- Roder, J. C.; Bourns, T. K. R.; and Singhal, S. K., 1977, *Exper. Parasitol.*, v. 41 (1), 206-212
Trichobilharzia ocellata cercariae, antigens shared with *Lymnaea stagnalis*

Immunity

- Rodhain, F.; and Dodin, A., 1971, *Medecine et Malad. Infect.*, v. 1 (4), 185-188
Wuchereria bancrofti, Loa loa, variations in human antistreptolysin O titers before and after treatment for filariasis, possible antigenic immune reaction between filariae and *Streptococcus*

Immunity

- Rogers, R.; et al., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (1), 77-84
Brugia pahangi, cats, histological changes in lymph nodes characteristic of cell-mediated and antibody-type immunological responses

Immunity

- Rose, M. E., 1974, *Infect. and Immun.*, v. 10 (4), 862-871
Eimeria tenella, *E. maxima*, chickens, phagocytosis of sporozoites and sporocysts in vitro by peritoneal exudate cells from immunized animals, role of antibody, species-specificity

- Immunity
Rose, M. E., 1976, Vet. Rec., v. 98 (24), 481-484
poultry coccidiosis, immunity and prospects for immunoprophylaxis, review
- Immunity
Rose, M. E., 1977, Exper. Parasitol., v. 42 (1), 129-141
Eimeria tenella, chickens injected in wattle with different antigens, skin hypersensitivity measured at intervals throughout immunization by infection and also after injection of antigens in Freund's complete adjuvant, attempted transfer of skin hypersensitivity with serum or cells, correlation of skin hypersensitivity with in vitro tests
- Immunity
Rose, M. E.; and Hesketh, P., 1976, Parasitology, v. 73 (1), 25-37
Eimeria maxima, determination of life-cycle stages which induce protective immunity (second generation schizont probably most concerned), stages affected by immune response (sexual stages most susceptible), chickens
- Immunity
Rose, M. L.; Parrott, D. M. V.; and Bruce, R. G., Immunology, v. 31 (5), 723-730
Trichinella spiralis, syngeneic mice, migration of mesenteric lymphoblasts and mesenteric T lymphoblasts at various times after infection, enhanced accumulation in small intestine at days 2 and 4
- Immunity
Rose, N. R.; Milisaukas, V.; and Zeff, G., 1975, Immunol. Commun., v. 4 (1), 1-16
antigenic and enzymatic changes in infected (including by *Toxoplasma gondii*) and transformed human diploid cells
- Immunity
Ross, J. M.; and Van Regenmortel, M. H. V., 1977, Ann. Immunol., v. 128C (4-5), 817-832
Trypanosoma equiperdum, rabbits, serum IgM and IgG levels, fractions found to contain both anti-trypanosome antibodies and autoantibodies to host tissue antigens, failure to confirm earlier reports of presence of rheumatoid factor
- Immunity
Rothwell, T. L. W.; et al., 1976, Vet. Parasitol., v. 1 (3), 221-230
14 common gastrointestinal nematodes, incidence and specificity of anti-acetylcholinesterase antibodies in infected hosts, results show that anti-AChE antibody production occurs in infections with some but not all genera of Strongylida, that not all infected hosts produce detectable antibody, and that the enzyme appears to be genus but not species specific
- Immunity
Rothwell, T. L. W.; and Griffiths, D. A., 1977, J. Parasitol., v. 63 (4), 761-762
Trichostrongylus colubriformis, kinetics of expulsion from previously uninfected, reinfected, and vaccinated guinea pigs compared
- Immunity
Rothwell, T. L. W.; Love R. J.; and Goodrich, B. S., 1977, Internat. Arch. Allergy and Applied Immunol., v. 53 (1), 93-95
Trichostrongylus colubriformis, guinea pigs, prostaglandins not inducing immune expulsion of worms from intestine; prostaglandin synthetase inhibitors not inhibiting expulsion by immune guinea pigs
- Immunity
Rousseaux-Prevost, R.; Bazin, H.; and Capron, A., 1977, Immunology, v. 33 (4), 501-505
Schistosoma mansoni, rats, serum IgE levels before and after infection
- Immunity
Roux, J.; et al., 1975, Medecine Trop., v. 35 (5), 377-387
Schistosoma haematobium, human mass treatment using niridazole over 3-day period, reduced egg output, enhanced development of immunity
- Immunity
Ruitenber, E. J., 1973, Norwegian J. Zool., v. 21 (4), 326 [Abstract]
Trichinella spiralis in rats (exper.), immune response directed towards intestinal phase; *Corynebacterium parvum* sensitization prolonged expulsion
- Immunity
Ruitenber, E. J.; et al., 1976, Nederl. Tijdschr. Geneesk., v. 120 (15), 645-649
Toxocara canis, survey of 253 children for complement-fixing antibodies against *Toxocara* shows low incidence; eosinophilia attributed to presence of *Enterobius vermicularis*: Netherlands
- Immunity
Ruitenber, E. J.; et al., 1977, Immunology, v. 33 (4), 581-587
Trichinella spiralis, comparison of infection in congenitally athymic (nude) mice and their heterozygous thymus-bearing littermates: expulsion of adult worms; yield of muscle larvae; production of specific antibodies; number of pyroninophilic cells, intra-epithelial lymphocytes, and eosinophils in small intestine; blood eosinophilia; data support thymus dependence of worm expulsion, plasma cell and antibody production, and tissue and blood eosinophilia
- Immunity
Ruitenber, E. J.; Teppema, J. S.; and Steerenberg, P. A., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 319-326
Trichinella spiralis intestinal phase, no evidence found for immunity-induced changes in enzyme histochemical staining pattern of adult worms, detection of antigen or of antigen-antibody complexes using bridge immuno-peroxidase anti-peroxidase technique, immunoglobulins found around cuticle of adult worms even in ATS-treated animals

Immunity

Rushton, B., 1977, Research Vet. Sc., v. 22 (1), 133-134

Fasciola hepatica, sheep, primary infection compared with reinfection, rafoxanide treatment, pathology, faster migration through liver in reinfection, temporary growth retardation, no reduction in numbers, large granulomata formed by anthelmintic-killed flukes

Immunity

Ruskin, J.; and Remington, J. S., 1971, J. Reticuloendothel. Soc., v. 9 (5), 465-479
mice immunized with *Toxoplasma* vaccine and adjuvant are protected against challenge with *Listeria*

Immunity

Rutter, N., 1977, Brit. Med. J. (6098), v. 2, 1335-1336

malaria infections in children born and living in non-malarious areas who have contracted infections upon visiting malarious areas with their immigrant parents who possibly have some natural immunity to malaria although their children do not, importance of diagnostic awareness: Nottingham, England

Immunity

Rytel, M. W.; Rose, H. D.; and Stewart, R. D., 1973, Proc. Soc. Exper. Biol. and Med., v. 144 (1), 122-123

Trypanosoma cruzi, *Plasmodium falciparum*, *P. vivax*, humans, lack of circulating humoral interferon in serum of persons with acute illness

Immunity

Sadigursky, M.; and Andrade, Z. A., 1976, Brit. Med. J. (6043), v. 2, 1073

controlled studies needed to clarify the relationship between schistosomiasis and renal amyloidosis

Immunity

Sadun, F. H.; Williams, J. S.; and Gore, R. W., 1973, Isotopes and Radiation Parasitol. III, 73-90

Schistosoma mansoni, *S. haematobium*, *Trichinella spiralis*, development of radioactive antigen microprecipitin assay (RAMP), comparison with soluble antigen fluorescent antibody and passive cutaneous anaphylaxis tests, results indicate RAMP measures antibody primarily of I_gE class

Immunity

Sanderson, B. E.; Jenkins, D. C.; and Phillipson, R. F., 1976, Internat. J. Parasitol., v. 6 (2), 99-102

Nippostrongylus brasiliensis, relation between changes in host immunity and worm acetylcholinesterase levels, results indicate that immunity-associated cholinesterase increase is to some extent reversible

Immunity

Sanderson, C. J.; Lopez, A. F.; and Moreno, M. M. B., 1977, Nature, London (5618), v. 268, 340-341 [Letter]

Trypanosoma cruzi, isotopic technique for assaying killing of epimastigotes in which criterion of parasite death is release of macromolecular RNA, use of assay to investigate nature of effector cell killing *T. cruzi* in antibody-dependent complement-independent system, eosinophils show strong activity, whereas lymphoid K cells seem to have insignificant activity

Immunity

Santoro, F.; et al., 1977, Ann. Trop. Med. and Parasitol., v. 71 (1), 121-123

presence in milk from *Schistosoma mansoni*-infected mothers of specific *S. mansoni* antigen (antigen M) not detected in serum, possible importance to immunological relationship between mother and suckling child

Immunity

Saowakontha, S., 1975, Southeast Asian J.

Trop. Med. and Pub. Health, v. 6 (1), 79-81
Trichinella spiralis, no differences between number of worms in immunized rats (exper.) fed low or high protein diets, significantly lower number of worms in immunized rats compared with rats not immunized

Immunity

Sauerlaender, R., 1976, Ztschr. Parasitenk., v. 49 (3), 263-280

Angiostrongylus vasorum, *A. cantonensis*, histopathology of experimentally infected *Achatina fulica*, localization within host various times after infection, cellular defense mechanisms

Immunity

Savanat, T.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (2), 149-154
determinations of total serum IgE levels in humans with amoebic liver abscess or other parasitic infections

Immunity

Schiliro, G.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 439-440

human visceral leishmaniasis, no impaired function of neutrophils in infection as shown by results of bactericidal activity and the nitroblue-tetrazolium tests

Immunity

Schleger, A. V.; et al., 1976, Austral. J. Biol. Sc., v. 29 (5-6), 499-512

Boophilus microplus larvae on cattle, cellular responses, degree of mast cell disruption, eosinophil concentration and degranulation and extent of epidermal vesiculation all greater in highly resistant hosts, possible immune mechanisms and effects on attachment and feeding

Immunity

Schnur, L. F.; and Zuckerman, A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 434-435 [Demonstration]

Leishmania spp. from Sudan, Ethiopia and Kenya, differentiation of leishmanial serotypes

Immunity

Schnur, L. F.; and Zuckerman, A., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 15 [Demonstration]
Israeli leishmanial strains, excreted factor serotypes

Immunity

Schnur, L. F.; and Zuckerman, A., 1977, Ann. Trop. Med. and Parasitol., v. 71 (3), 273-294
Sudanese, Kenyan, and Ethiopian leishmanial isolates from human visceral and cutaneous infections, various wild animals and sandflies, leishmanial excreted factor (EF) serotypes determined by gel diffusion, discussion of distribution and relationships

Immunity

Schnur, L. F.; Zuckerman, A.; and Greenblatt, C. L., 1973, J. Protozool., v. 20 (4), 534
Leishmania, relationship between clinical types and serotypes not as simple and direct as previously thought

Immunity

Scotfield, A. M., 1977, Internat. J. Parasitol., v. 7 (2), 159-165
Nippostrongylus brasiliensis-infected rats, intestinal absorption of hexoses, possible relation to immune reaction

Immunity

Seed, J. R., 1977, Internat. J. Parasitol., v. 7 (1), 55-60
Trypanosoma brucei gambiense, relative efficiency of IgM and IgG-type antibodies in presence and absence of complement compared on weight basis by both agglutination and in vitro protection tests, ability to passively transfer immunity in vivo also compared, hypothesized that IgM is responsible for relapse phenomena observed in blood while IgG is more active in extravascular locations

Immunity

Seed, J. R.; et al., 1976, Am. Midland Naturalist, v. 96 (2), 379-390
Trypanosoma brucei gambiense in Microtus montanus (exper.), role of spleen in host immunity; effect of infection (enlarged spleen, increase in adrenal weights, decrease in size of gonads), possible means of distinguishing parasite stress from other forms of natural population stress; possible relationship to reproductive potential and population density

Immunity

Seese, F. M.; Wescott, R. B.; and Gorham, J. R., 1976, Exper. Parasitol., v. 39 (2), 214-221
Nippostrongylus brasiliensis, mice, indirect fluorescent antibody studies on localization of antigenic sites within worm and on classes of antibody involved in humoral response

Immunity

Seigel, R.; and Wolson, A. H., 1977, Am. J. Roentgenol., v. 128 (1), 150-152
Pneumocystis carinii pneumonia, radiographic diagnosis of chronic infection, case report of unusual chronicity and cavitation demonstrating need to consider P. carinii in persons with immunologic and pulmonary parenchymal disease

Immunity

Seitz, H. M., 1975, Tropenmed. und Parasitol., v. 26 (4), 417-425
Plasmodium berghei, strain K 173 in isogenic mouse strains (exper.), infection course, immunization by intermittent suppression of parasite multiplication by maintaining mice on milk diets of varying lengths, F1-hybrids most resistant and immunization attempts most successful with this strain

Immunity

Seitz, H. M., 1976, Tropenmed. u. Parasitol., v. 27 (1), 33-43
description of antigens and antibodies demonstrated during course of Plasmodium berghei infections in mice, comparison of animals with lethal infections and those maintained on milk-diet suppressed infections

Immunity

Sen, D. K.; and Lin, V. K., 1977, Virginia J. Sc., v. 28 (1), 9-12
Trypanosoma duttoni, resistance of mice increased by holothurin administered before and during infection with trypanosomes, higher level of parasitemia observed in mice treated after infection with trypanosomes, possible mechanisms

Immunity

Sheahan, B. J., 1975, J. Comp. Path., v. 85 (1), 87-95
Sarcoptes scabiei, pigs, natural vs. experimental infections, histological and histochemical alterations in ear lesions, raised serum protein levels not accompanied by increases in passive haemagglutination titres

Immunity

Sher, A., 1976, Nature, London (5575), v. 263, 334-336
Schistosoma mansoni schistosomula, complement-dependent adherence of mast cells to surface

Immunity

Sher, A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 20-28
Schistosoma mansoni, mice, effector mechanism of acquired resistance is manifestation of antibody-dependent cell-mediated immunity, workshop report

Immunity

Sher, A.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 909-916
Schistosoma mansoni, presence of eosinophil-dependent cytotoxic antibodies (EDCA) in human serum, attempted correlation of levels of EDCA activity with intensity and duration of schistosome infections and with lymphocyte blastogenic response to soluble schistosome antigens

Immunity

- Sher, A.; et al., 1977, *Exper. Parasitol.*, v. 41 (1), 160-166
Schistosoma mansoni, mice, immunoglobulins involved in passive immunization, different subclasses of IgG responsible for protective immunity vs. delayed migration of schistosomula

Immunity

- Sher, A.; and Ahmad, S., 1977, *Indian J. Exper. Biol.*, v. 15 (12), 1083-1088
Entamoeba histolytica, rabbits, humans, detection and characterization of specific humoral antibodies from immune sera

Immunity

- Sher, A.; and McIntyre, S. L., 1977, *J. Immunol.*, v. 119 (2), 722-725
Schistosoma mansoni, adherence of rat peritoneal mast cells to schistosomula, mast cell adherence sites are receptors for third component of complement

Immunity

- Sher, A.; McIntyre, S.; and von Lichtenberg, F., 1977, *Exper. Parasitol.*, v. 41 (2), 415-422
Schistosoma mansoni, mice, kinetics and class specificity of hypergammaglobulinemia induced during infection, most of elevated immunoglobulins have no demonstrable specificity for parasite antigens

Immunity

- Shettigara, P. T.; Choi, N. W.; and Abu-Zeid, H. A. H., 1976, *Am. J. Epidemiol.*, v. 104 (3), 34C [Abstract]
 prevalence survey of prenatal sera for presence of *Toxoplasma* antibodies and correlation of findings with ethnic origins, socioeconomic status and climatic differences: Manitoba Province

Immunity

- Shirahata, T.; and Shimizu, K., 1975, *Research Bull. Obihiro Univ.*, s. I, v. 9 (2), 257-264 (27-34)
Toxoplasma gondii, mice (exper.), humoral antibody responses, indirect fluorescent antibody test, complement fixation test, Sabin-Feldman dye test; effect of serum antibody on viability in vitro

Immunity

- Shirahata, T.; Shimizu, K.; and Suzuki, N., 1976, *Ztschr. Parasitenk.*, v. 49 (1), 11-23
Toxoplasma, effects of immune lymphocyte products and serum antibody on parasite multiplication in murine peritoneal macrophages

Immunity

- Shirai, W.; et al., 1976, *Japan. J. Vet. Sc.*, v. 38 (2), 135-141
Fasciola hepatica, cattle (liver), differentiation of brilliant cells (derived from smooth muscle cells) from tissue mast cells in areas of adenomatous epithelial proliferation of bile ducts

Immunity

- Shivacheva, T.; and Terziiski, A., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16, 169-185
Ascaris suum, mice, dynamics of cellular reaction of lymphoid tissue in tunica propria mucosae of caecum

Immunity

- Shivacheva, T.; and Terziiski, A., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16, 187-195
Ascaris suum, mice, plasma cell response of mesenteric lymph nodes

Immunity

- Shmuel, Z.; Golenser, J.; and Spira, D. T., 1975, *J. Protozool.*, v. 22 (3), 73A [Abstract]
 rats infected with *Trypanosoma lewisi* at different stages in course of *Plasmodium berghei* infection, influence on parasitemia of each

Immunity

- Sinclair, K. B., 1975, *Research Vet. Sc.*, v. 19 (3), 296-303
Fasciola hepatica, sheep exposed to preliminary and challenge infections, pathophysiology (circulating eosinophils, plasma proteins, and glutamate dehydrogenase, voluntary dry matter intake, plasma loss in feces), no evidence of acquired resistance to physiological effects of infection

Immunity

- Singh, J.; and Hussain, O., 1977, *Ann. Parasitol.*, v. 52 (4), 397-402
Eimeria tenella, chicks with different levels of infection, comparison of therapeutic activity of sulphadimethoxine vs. bifuran and of effect of medication on development of immunity

Immunity

- Sinski, E.; and Holmes, P. H., 1977, *Exper. Parasitol.*, v. 43 (2), 382-389
Nippostrongylus brasiliensis, rats, systemic and local antibody response, specific anti-parasite binding capacity of IgA and IgG in intestinal mucosa and serum measured by radioimmunoassay, results compared with total levels of IgA and IgG and hemagglutinating and precipitating antibody titers, indirect evidence that local IgA may be part of effector mechanism

Immunity

- Sless, F.; et al., 1975, *J. Protozool.*, v. 22 (3), 56A-57A [Abstract]
Trypanosoma brucei, mice treated with cyclophosphamide 2 days after infection developed high non-relapsing parasitaemia, mice treated 3 days before infection developed significantly lower parasitaemia than controls apparently due to increase in delayed hypersensitivity

Immunity

- Slutzky, G. M.; and Greenblatt, C. L., 1977, *FEBs Letters*, v. 80 (2), 401-404
Leishmania tropica, isolation of immunologically active factor from cultures, contains carbohydrate segment produced by parasite and protein segment incorporated from growth medium

Immunity

Slutzky, G. M.; and Greenblatt, C. L., 1977, *J. Protozool.*, v. 24 (4), 67A [Abstract]
Leishmania tropica, isolation and characterization of immunologically active carbohydrate-protein complex from cultures

Immunity

Small, A. J.; and Kendall, S. B., 1977, *Parasitology*, v. 75 (2), x [Abstract]
Oesophagostomum quadrispinulatum, rate of development in pigs, resistance of pigs to re-infection

Immunity

Smalley, M. E.; and Sinden, R. E., 1977, *Parasitology*, v. 74 (1), 1-8
Plasmodium falciparum, gametocytes are both long-lived and show persistent infectivity to mosquitoes, they can stimulate antibody production but immune response appears to play no part in their elimination

Immunity

Smith, D. D.; and Frenkel, J. K., 1977, *J. Parasitol.*, v. 63 (6), 1066-1071
Besnoitia darlingi, isolation from *Didelphis marsupialis*, production of acute lethal infections in mice and hamsters by inoculation of cysts, chronic infections with formation of tissue cysts obtained in mice by sulfadiazine prophylaxis, cysts fed to cats resulted in shedding of isosporoid oocysts, mouse-to-mouse transmission achieved by injecting triturated tissue containing cysts, serologic testing

Immunity

Smith, H. V.; and Herbert, I. V., 1976, *Immunology*, v. 30 (2), 213-219
Hyostromylus rubidus, passive transfer of humoral immunity from infected sows to their offspring via colostrum, demonstration that agglutinating antibodies mainly of the IgG class were associated with protection

Immunity

Smith, H. V.; and Herbert, I. V., 1976, *Vet. Parasitol.*, v. 1 (4), 327-335
Hyostromylus rubidus, pigs, primary infection, antibody response, time course and kinetics as shown by passive haemagglutination test

Immunity

Smith, H. V.; Herbert, I. V.; and Davis, A. J., 1976, *Vet. Parasitol.*, v. 1 (4), 337-344
Hyostromylus rubidus, pigs, multiple infections and reinfections, antibody response, passive haemagglutination test

Immunity

Smith, J. H.; and von Lichtenberg, F., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 595-601
 study of degradation of calcific *Schistosoma haematobium* eggs in mouse tissue, typical granulomatous formation during decalcification, apparent immunologic inertness of egg possibly linked to local tissue calcium balance

Immunity

Smith, M. A.; and Clegg, J. A., 1976, *Parasitology*, v. 73 (1), 47-52
Schistosoma mansoni, *Mesocricetus auratus* of WO vs. LGN strains, wide difference in level of acquired immunity

Immunity

Smith, M. D., 1977, *Parasitology*, v. 75 (1), 119-123
Schistosoma mansoni, mice, ultrastructural development of schistosome egg granuloma, delayed hypersensitivity response predominates during early stages but as the infection proceeds circulating antibody appears and granulomatous response is mediated by immune-complex reaction possibly of Arthus type

Immunity

Smith, W. D., 1977, *Research Vet. Sc.*, v. 22 (1), 128-129
Haemonchus contortus, sheep immunized with larval antigens, stimulation of serum and mucus IgG antibody response, no IgA antibody response, no protection against challenge infection

Immunity

Smith, W. D., 1977, *Research Vet. Sc.*, v. 22 (3), 334-338
 sheep hyperinfected with *Haemonchus contortus*, anti-larval antibody levels in serum and abomasal mucus detected by radioimmunoassay, no immunological memory observed following challenge infection, presence of IgA antibodies in abomasal mucus thought to be locally produced while IgG antibodies largely derived from blood

Immunity

Smithers, S. R.; McLaren, D. J.; and Ramalho-Pinto, F. J., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 11-19
Schistosoma mansoni, surface plasma membrane of schistosomulum as target of immune response, workshop report

Immunity

Smithers, S. R.; and Terry, R. J., 1976, *Advances Parasitol.*, v. 14, 399-422
 immunology of schistosomiasis, updated review [see Smithers and Terry, 1969 a, Supplement 19]

Immunity

Smrkovski, L. L.; and Larson, C. L., 1977, *Infect. and Immun.*, v. 16 (1), 249-257
Leishmania donovani, BALB/c mice, BCG immunization, prophylactic and therapeutic effect, influence of timing and of route of injection

Immunity

Sogandares-Bernal, F., 1976, *J. Parasitol.*, v. 62 (2), 222-226
Schistosoma mansoni adults, 7S₂ antibody attached to and in the integument does not seem to fix complement, may act in enhancing and blocking roles which protect worms from host

Immunity

Sogandares-Bernal, F.; et al., 1975, J. Parasitol., v. 61 (5), 965-966
higher prevalence of *Toxoplasma* antibodies in dairy vs. range cattle, possible danger of human infection by drinking unpasteurized milk or milk from "Certified" herds: Bitterroot Valley, Montana

Immunity

Sogandares-Bernal, F.; and Brandt, S., 1976, Ztschr. Parasitenk., v. 50 (3), 331-334
Schistosoma mansoni, mice, egg-induced granulomata, detection of IgM, 7S₁ and C3, possible roles in sequestration of antigens, Hoeppli phenomenon, ultimate death of embryo or miracidium

Immunity

Solomon, G. B.; and Grigonis, G. J., jr., 1976, Exper. Parasitol., v. 40 (2), 298-307
Capillaria hepatica, changes in egg shell structure following collection of eggs by physical methods or after passage through mouse gastrointestinal tract, relationship to origin and release of antigens contributing to immunological response during granuloma formation; hypothesis concerning exper. egg granuloma formation, maintenance of homeostasis of eggs in situ, and possible modes of action which trigger development

Immunity

Somorin, A. O.; Heiner, D. C.; and Ajugwo, R. E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 872-876
Onchocerca volvulus, Nigerian patients, total serum IgE measured by radioimmunoassay, comparison with IgE levels in uninfected and atopic groups in Nigeria and California

Immunity

Sorice, F.; Delia, S.; and Castagnari, L., 1976, Boll. Ist. Sieroterap. Milanese, v. 55 (2), 185-186 [Letter]
circulating IgE levels in patients with active hydatidosis were higher than in patients with previous hydatidosis

Immunity

Soulsby, E. J. L.; et al., 1976, Pathophysiol. Parasit. Infect., 149-159
Litomosoides carinii in *Mastomys natalensis*, homocytotropic antibody response, passive and active cutaneous anaphylaxis

Immunity

Spira, D. T.; Golenser, J.; and Gery, I., 1976, Clin. and Exper. Immunol., v. 24 (1), 139-145
Plasmodium berghei, reactivity of lymphoid macrophage populations of malarious rat spleen to non-specific mitogens

Immunity

Spitalny, G. L.; et al., 1977, Exper. Parasitol., v. 42 (1), 73-81
Plasmodium berghei, mice, effect of T cell deprivation on sporozoite immunization, eliminated or reduced capacity to develop protection, sporozoite-neutralizing activity, or circumsporozoite antibodies, capacity fully restored by giving thymocytes prior to immunization, data demonstrate T cell dependence of sporozoite-induced immunity

Immunity

Spitalny, G. L.; Rivera-Ortiz, C.-I.; and Nussenzweig, R. S., 1976, Exper. Parasitol., v. 40 (2), 179-188
Plasmodium berghei, mice, effect of splenectomy before and after immunization on development and manifestation of sporozoite-induced immunity, monitoring of protective immunity and production of antisporozoite antibodies (circumsporozoite precipitate and sporozoite neutralization activity), effect of passive transfer of hyperimmune sera

Immunity

Spry, C. J. F., 1972, Immunology, v. 22 (4), 663-675
Trichinella spiralis, rats, origin, recirculation kinetics, and distribution of large lymphocytes from thoracic duct, no definite conclusions on mechanism by which large lymphocytes in rats with trichinosis stimulate eosinopoiesis

Immunity

Srivastava, P. S.; and Sharma, N. N., 1976, Acta Vet. Beograd, v. 26 (6), 315-321
Theileria annulata-infected calves, splenectomy of *T. annulata* premune calves provoked only mild relapses, severe disease symptoms manifested in calves splenectomized during febrile reaction period

Immunity

Stabler, R. M.; and Braun, C. E., 1975, J. Wildlife Dis., v. 11 (4), 482-483
Trichomonas gallinae, occurrence of virulent and avirulent strains, differential susceptibility of *Columba* spp., effect of previous infections with virulent or avirulent strains

Immunity

Stadler, B.; et al., 1976, Ztschr. Immunitaetsforsch., v. 152 (2), 117-118 [Abstract]
Leishmania tropica, internal labelling with ³H-thymidine in order to study attachment to vs. phagocytosis by macrophages in vitro under different conditions (with and without antibodies, activation of macrophages, etc.)

Immunity

Stadtsbaeder, S.; and Nguyen, B. T., 1977, Ann. Immunol., v. 128C (1-2), 149-150
Toxoplasma gondii, susceptibility of nude mice to infection was same as controls, vaccination of nude mice conferred incomplete immunity

Immunity

Stadtsbaeder, S.; Nguyen, B. T.; and Calvin-Preval, M. C., 1975, Ann. Immunol., v. 126C (4), 461-474
Toxoplasma gondii, mice, immunization with living parasites concomitant to cotrimoxazol treatment, phagocytosis/penetration and intracellular multiplication of *Toxoplasma* in normal or immune macrophages in the absence or presence of specific antibodies

- Immunity**
 Stahl, W.; et al., 1976, *Exper. Parasitol.*, v. 39 (1), 135-142
Toxoplasma gondii, disease patterns in methotrexate-treated mice, examination of several time- and dose-dependent drug regimes, immunosuppressive effect when administered early in infection, potential use as experimental model for clinical toxoplasmosis
- Immunity**
 Stanislawski, E.; Renwrantz, L.; and Becker, W., 1976, *J. Invert. Path.*, v. 28 (3), 301-308
Biomphalaria glabrata, soluble blood group reactive substances in hemolymph, possible role in relationship with *Schistosoma mansoni*
- Immunity**
 Stankiewicz, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 161-173
Strongyloides papillosus, sheep, single and multiple infections with sheep and rabbit strains, changes in leukocyte composition of peripheral blood
- Immunity**
 Stankiewicz, M.; and Jeska, E. L., 1973, *Immunology*, v. 26 (1), 827-834
Trichinella spiralis, cell adherence reactions to infective larvae, importance of heat labile and heat stable substances in peritoneal exudate fluid
- Immunity**
 Stankov, M.; Movsesijan, M.; and Kovandzic, D., 1975, *Acta Parasitol. Iugoslavica*, v. 6 (1), 31-36
Ascaris suum, pigs, antibodies form specific antigen-antibody complex; same antibodies are specifically bound to same organs and tissues of *A. lumbricoides*, sera of humans infected with *A. lumbricoides* form fluorescent complex with same organs of *A. lumbricoides* and *A. suum*
- Immunity**
 Stauber, L. A., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 739-765
 leishmaniasis, immunology, review
- Immunity**
 Steck, E. A., 1974, *Progr. Drug Research*, v. 18, 289-351
Leishmania spp., extensive review (history, etiology, pathology, epidemiology, immunology, cultivation, biochemistry, chemotherapy)
- Immunity**
 Stepanian, S. G.; et al., 1976, *Biol. Zhurnal Armenii*, v. 29 (10), 82-86
Ascaridia galli, chickens, role of colamine phosphate in heightening natural host resistance (strengthened hemopoiesis, increased vitamin C in blood plasma and tissue, increased organic action of acid soluble fraction of phosphate in blood)
- Immunity**
 Stewart, S. J.; et al., 1976, *Exper. Parasitol.*, v. 40 (3), 373-379
Polyplax serrata, mice, effects of limb disability and consequent inability to groom on lousiness: failure to induce immune tolerance after neonatal exposure
- Immunity**
 Storey, D. M.; and Court, J. P., 1977, *Parasitology*, v. 75 (2), ix [Abstract]
Litomosoides carinii, host or host-like antigens demonstrated in adult worms and their presence inferred in blood microfilariae
- Immunity**
 Stotish, R. L.; et al., 1976, *J. Biol. Chem.*, v. 251 (2), 302-307
Eimeria tenella, glycoprotein unique to cytoplasm of unsporulated oocyst, purification and partial characterization, disappearance from cytoplasm during sporulation, possible incorporation into sporozoite membranes, studies on possible role in immunity inconclusive
- Immunity**
 Stoye, M.; and Krause, J., 1976, *Zentralbl. Vet.-Med., Reihe B*, v. 23 (10), 822-839
Ancylostoma caninum, impatiently infected lactating ovarietomized dog, reactivation of inhibited larvae, oestradiol and progesterone induced larval excretion in milk
- Immunity**
 Strejan, G. H.; et al., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 54 (6), 502-516
Ascaris suum, rats, influence of type of adjuvant and of carrier priming on induction of IgE and IgG antibodies to dinitrophenyl conjugates
- Immunity**
 Strejan, G. H.; and Surlan, D., 1977, *Internat. Arch. Allergy and Applied Immunol.* v. 54 (6), 487-501
Ascaris suum, rats, function of glutaraldehyde-polymerized antigen in induction of reaginic antibodies
- Immunity**
 Stromberg, B. E.; and Soulsby, E. J. L., 1976, *Vet. Parasitol.*, v. 2 (2), 197-208
Ascaris suum, guinea pigs, capacity of various worm developmental stages to induce protective immune response using various routes of inoculation, antibody titer as assessed by indirect hemagglutination was not correlated with degree of protection
- Immunity**
 Sturrock, R. F.; et al., 1977, *Parasitology*, v. 75 (1), 89-100
Papio anubis, eosinophilia following oral infection with *Trichinella spiralis*, eosinophilia following intravenous administration of *Trichinella spiralis* and the effect on subsequent exposure to *Schistosoma mansoni*, latter appears to be suitable method of experimental induction of non-specific eosinophilia to further investigate possible immune mechanisms to *Schistosoma mansoni* in the baboon
- Immunity**
 Subrahmanyam, D.; et al., 1976, *Nature, London* (5551), v. 260, 529-530
Litomosoides carinii, mechanism of leukocyte adhesion in vitro, mediated by serum factor, accompanied by cytotoxic effect on microfilariae, results implicate both humoral and cellular factors in destruction of microfilariae

Immunity

Suzuki, N.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 35-40
Toxoplasma gondii, mice and rats (exper.), blood changes; rats (exper.), antibody titers by dye test and indirect immunofluorescence, erythrocytes showed positive Coombs' reaction suggesting presence of auto-immune acquired hemolytic process

Immunity

Swietlikowski, M., 1969, Acta Parasitol. Polon., v. 17 (1-19), 95-101
Dictyocaulus viviparus, calves infected orally by larvae refrigerated 3 or 8 months; young larvae produce more severe disease; both ages cause similar immunological response; implications for overwintering, epizootiology, and self-cure

Immunity

Szarfman, A.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 19-24
 evaluation of specificity of EVI factor observed in *Trypanosoma cruzi* cases using indirect fluorescent antibody test on sera from patients with other parasitic diseases, immunofluorescence of anti-skeletal muscle antibody from leishmaniasis

Immunity

Szarfman, A.; et al., 1977, J. Parasitol., v. 63 (1), 149
Trypanosoma cruzi, patients with acute Chagas disease, EVI antibodies, specific agglutinins, and IFA antibodies

Immunity

Szeri, I.; and Csoka, R., 1976, Acta Microbiol. Acad. Scient. Hungar., v. 23 (3), 235-237
Toxoplasma gondii, acute infections in mice (exper.), spleen, thymus and lymphocyte changes

Immunity

Tabatabai, M.; et al., 1975, Ann. Parasitol., v. 50 (1), 7-15
Echinococcus granulosus, administration of ovine hydatid fluid to sheep, cardiovascular and respiratory responses caused 50% mortality, possible immunological basis

Immunity

Tada, T.; and Okumura, K., 1971, J. Immunol., v. 107 (4), 1137-1145
Ascaris suum, anti-hapten homocytotropic antibody (HTA) formation induced in rats with dinitrophenylated *Ascaris* extracts, suppressive activity of anti-hapten and anti-carrier antibodies on HTA formation, results indicate cooperation of carrier-specific and hapten-specific recognition cells for induction of anti-hapten HTA

Immunity

Tada, T.; Okumura, K.; and Taniguchi, M., 1972, J. Immunol., v. 108 (6), 1535-1541
Ascaris suum, rats, nature and activities of carrier-specific cells in induction and inhibition of homocytotropic antibody formation, regulator and helper cells may be identical

Immunity

Tada, T.; Okumura, K.; and Taniguchi, M., 1973, J. Immunol., v. 111 (3), 952-961
Ascaris suum, rats, antigen-specific T cell factor that regulates anti-hapten homocytotropic antibody response

Immunity

Takahashi, K.; et al., 1976, Brit. Vet. J. v. 132 (1), 112-117
Theileria sergenti, cattle (exper.), antibody levels, parasitaemia, packed cell volume, indirect fluorescent antibody test on whole serum, IgG, and IgM, possible role of humoral antibody detected by IFA test in inhibition of parasitaemia

Immunity

Takahashi, K.; Yamashita, S.; and Shimizu, Y., 1975, Japan. J. Vet. Sc., Tokyo, v. 37 (5), 295-301
Theileria sergenti, cattle, indirect fluorescent antibody test; relationship of varying antibody titer to course of infection and clinical signs; severe infection in splenectomized calves with no antibody developed; resistance to challenge infection in previously infected calves; recrudescence of infection in calves given corticosteroids; possible humoral factor in immune mechanism and cell-mediated immunity relationship to relapse

Immunity

Takayanagi, T.; and Nakatake, Y., 1976, Exper. Parasitol., v. 39 (2), 234-243
Trypanosoma gambiense, mice, immunologic responses to infection in thymectomized lethally-irradiated recipients of passively transferred thymic cells sensitized with parasitic antigens in vivo, enhanced agglutinin production and protection and phagocytosis

Immunity

Takayanagi, T.; and Nakatake, Y., 1977, Exper. Parasitol., v. 42 (1), 21-26
Trypanosoma gambiense, loss of binding activity by which rat antibody is bound to macrophages as result of removing Fc portion of IgG by enzymatic digestion, avidity of antibody for heterologous macrophages

Immunity

Takayanagi, T.; Nakatake, Y.; and Kato, H., 1977, Exper. Parasitol., v. 43 (1), 196-202
Trypanosoma gambiense, agglutination and binding of trypanomastigotes to macrophages in terms of different antigen-antibody ratios

Immunity

Talis, B.; Stein, B.; and Gold, D., 1977, J. Protozool., v. 24 (2), Suppl., 18A-19A [Abstract]
 hartmanelloid amoeba, invasiveness and antigenicity as compared to *Entamoeba histolytica* strains

Immunity

Taniguchi, M.; and Tada, T., 1974, J. Immunol., v. 113 (6), 1757-1769
Ascaris suum, rat, IgT-like molecule for induction of homocytotropic antibody response

Immunity

Tapper, M. L.; and Armstrong, D., 1976, Arch. Int. Med., Chicago, v. 136 (7), 807-810
blood transfusion induced malarial infections in 2 patients with neoplastic disease, case reports, implications for alterations of immunologic status

Immunity

Targett, G. A. T., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 272 [Abstract]
Trypanosoma musculi, mice, immunological responses

Immunity

Targett, G. A. T.; Viens, P.; and Wilson, V. C. L. C., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 148 [Abstract]
Trypanosoma musculi, survival in immunized mouse host blood for at least 1 year in infective state

Immunity

Tchoulamjan, A.; et al., 1977, Prensa Med. Argent., v. 64 (5), 125-138
schistosomiasis, epidemiologic survey of skin-test positive persons in non-endemic area to assess possible infection spread resulting from hydroelectric dam construction projects in neighboring endemic areas: Misiones, Argentine Republic

Immunity

Teixeira, A. R. L., 1977, Advances Exper. Med. and Biol., v. 93, 243-280
Trypanosoma cruzi, immunoprophylaxis, review: life cycle in vector and host; clinical manifestations of Chagas' disease; mechanisms of resistance (natural and acquired immunity, humoral and cell-mediated); autoimmunity; antigenic structure; live vaccines; dead vaccines; perspectives for further studies

Immunity

Telford, S. R., jr.; and Forrester, D. J., 1975, J. Protozool., v. 22 (3), 324-328
Plasmodium (Huffia) hermani sp. n., pathology, strong immune response of infected birds: Palmdale, Glades County, and Lochloosa Wildlife Management Area, Alachua County, Florida

Immunity

Terry, R. J.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 263 [Abstract]
trypanosomiasis, hypothesis to explain paradox of heightened IgM production and immunosuppression

Immunity

Terziiski, A.; and Shivacheva, T., 1974, Izvest. Tsentral. Khelmin. Lab., v. 17, 145-152
Ascaris suum, mice (immunized or not immunized, challenged per os with antigen), cell reaction in mesenteric lymph nodes

Immunity

Tewari, H. C.; Dhar, D. N.; and Singh, K. S., 1973, Isotopes and Radiation Parasitol. III, 43-50
Dictyocaulus filaria, sheep, incidence, laboratory and field trials with gamma-irradiated vaccine, high degree of protection conferred, no correlation between antibody response and ability to withstand challenge: Kashmir, India

Immunity

Thompson, A.; et al., 1977, J. Clin. Path., v. 30 (3), 292-294 [Letter]
giardiasis, human, immunoglobulin-bearing plasma cells in jejunal mucosae, results indicate that early immune response in jejunal lamina propria may frequently be restricted to synthesis of IgM to be followed by IgA and IgG

Immunity

Thoongsuwan, S.; and Cox, H. W., 1973, Ann. Trop. Med. and Parasitol. v. 67 (4), 373-385
Babesia rodhaini, 3 antigenic variants selected by in vitro treatment with immune globulin, each of 3 strains caused nonspecific serum antigen associated with acute plasmodial and babesial infections to be elaborated without variation or diminution, implications for mechanism of relapse of latent infection

Immunity

Thorson, R. E., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 913-961
direct-infection nematodes, immunology, review

Immunity

Threadgold, L. T.; and Befus, A. D., 1977, Exper. Parasitol., v. 43 (1), 169-179
Hymenolepis diminuta, ultrastructural localization of immunoglobulins and complement component 3 on worm tegument

Immunity

Tizard, I. R.; Fish, N. A.; and Quinn, J. P., 1976, J. Hyg., Cambridge, v. 77 (1), 11-21
extensive survey of human serum for presence of antibodies to Toxoplasma gondii and observations on probable epidemiology: Canada

Immunity

Todorov, T.; et al., 1976, Bull. World Health Organ., v. 53 (4), 407-415
human echinococcosis, persistence of antibodies after surgical treatment, use in evaluation of surgical results and prognosis

Immunity

Todorovic, R. A.; Gonzalez, E. F.; and Adams, L. G., 1973, Trop. Animal Health and Prod., v. 5 (4), 234-245
Babesia bigemina, B. argentina, calves, sterile immunity using killed-Babesia vaccine, field-borne challenge with Boophilus microplus infected ticks; possible important role in mechanism of acquired immunity

Immunity

- Tomaneck, J.; and Franek, M., 1975, Acta Vet. Brno, v. 44 (4), 393-399
Dictyocaulus filaria, presence of complement-fixing antibodies in immunoglobulin fractions of sera from lambs, during primary and secondary response to infection with non-irradiated and X-irradiated larvae

Immunity

- Topley, E.; Knight, R.; and Woodruff, A. W., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 51-54
 malaria patients, direct antiglobulin test and immunoconglutinin titres, possible significance of results in understanding mechanism of anemia

Immunity

- Torisu, M.; et al., 1975, Clin. Immunol. and Immunopathol., v. 4 (4), 467-477
Ascaris lumbricoides, patients with worm migration into biliary tree, skin tests, complement fixation, hemagglutination tests, immunoglobulin levels, pre- and post-surgical results, significant preoperative rise in IgE appears to be dependent on *Ascaris* infection, purified *Ascaris* antigen has high chemotactic effect on eosinophils

Immunity

- Toshkov, A.; et al., 1977, Dokl. Bolgar. Akad. Nauk, v. 30 (6), 895-896
Trichinella spiralis-infected rats followed by infection with *Erysipelothrix rhusiopathiae*, effect of ACTH on defence mechanisms is counteracted by *T. spiralis* (inhibition of non-specific protective factors)

Immunity

- Tosta, C. E.; and Filho, N., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 531 [Letter]
Plasmodium berghei, factor(s) in normal adult rat serum not related to malarial antibodies that causes decrease in infectivity of parasite

Immunity

- Tr. Roy. Soc. Trop. Med. and Hyg., 1976, v. 70 (2), 114-129
 African and South American trypanosomiasis, 16th seminar on current status (epidemiology, chemotherapy, immunological research and problems of immunization, infection in domestic animals, vector control)

Immunity

- Tripp, M. R., 1970, J. Reticuloendothel. Soc., v. 7 (2), 173-182
 defense mechanisms of mollusks, review

Immunity

- Truong-Minh-Ky, D.; et al., 1976, Medecine Afrique Noire, v. 23 (4), 215-223
Plasmodium malariae, *Plasmodium falciparum*, survey of village infants for presence of malarial antibodies: Abidjan

Immunity

- Tsang, V. C. W.; Hubbard, W. J.; and Damian, R. T., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 243-247
Schistosoma mansoni, presence of schistosomal inhibitor for the intrinsic blood coagulation pathway of host which is capable of specifically blocking the enzymatic activation of pre-plasma thromboplastin antecedent by activated Hageman factor

Immunity

- Turner, H. M.; and McKeever, S., 1976, Internat. J. Parasitol., v. 6 (6), 483-487
Taenia taeniaeformis, development of refractory responses in *Mus musculus* (White Swiss strain) from 10th to 100th day postpartum, gut and liver phases of infection compared histologically

Immunity

- Turton, J. A., 1977, Parasitology, v. 75 (2), xxxvi [Abstract]
Necator americanus, human (exper.), 4 infections in one person over 2-year period, protective response not elicited (using egg count as criterion), anthelmintic activity of levamisole exceptionally varied (from 0 to 99%) but mebendazole always 100% effective, symptoms, blood picture, antibody production, lesions produced during dermal penetration

Immunity

- Tympner, K. D., 1971, Monatschr. Kinderh., v. 119 (7), 287-291
 infections of newborn children (including toxoplasmosis), importance of quantitative immunoglobulin determinations (IgM, IgA) in diagnosis and therapy

Immunity

- Uilenberg, G.; and Giret, M., 1973, Rev. Elevage et Med. Vet. Pays Trop., v. 26 (2), 147-150
Trypanosoma congolense, sheep, antibody against late variant type does not show neutralizing activity against type obtained early in infection; difficulty obtaining monovalent sera from laboratory rodents; Berenil treatment does not influence results of neutralization test; persistence of antibodies in sheep; unsuccessful trials of agglutination and immunolysis tests

Immunity

- Urban, J. F., jr.; Ishizaka, T.; and Ishizaka, K., 1977, J. Immunol., v. 118 (6), 1982-1986
Nippostrongylus brasiliensis, rats, normal and neonatally thymectomized, proliferation of IgE-bearing cells

Immunity

- Urban, J. F., jr.; Ishizaka, T.; and Ishizaka, K., 1977, J. Immunol., v. 119 (2), 583-590
Nippostrongylus brasiliensis, rats, soluble factor for generation of IgE-bearing lymphocytes

Immunity

Vanderberg, J. P., 1974, *J. Protozool.*, v. 21 (4), 527-537

Plasmodium spp. sporozoites, motility, locomotion, movement, effects of several factors (parasite species, oocyst vs. salivary gland sporozoites, presence of albumin or globulins, temperature), relationship to infectivity, immunogenicity (circumsporozoite precipitate reaction), and secretory activity

Immunity

Van Geldorp, P. J. A.; and Schillhorn van Veen, T. W., 1976, *Vet. Parasitol.*, v. 1 (3), 265-269

periparturient rise in faecal helminth egg counts of Udah sheep, suggested that increase was due to helminths (mainly *Haemonchus* sp.) which had been inhibited during dry season and resumed development at beginning of rainy season, rapid decline in egg counts 5-6 weeks after lambing considered to be due to self cure associated with high rainfall: Zaria area of Nigeria

Immunity

Vargas, D. L., 1974, *Prensa Med. Mexicana*, v. 39 (3-4), 215-219

Onchocerca volvulus, humans, immunologic analysis of serum immunoglobulins, finding that parasite produces heterophilic antigen of A type blood groups

Immunity

Vasquez, R.; Cattán, A.; and Herbert, W. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 436 [Demonstration]

Trypanosoma brucei, production of antibodies cytophilic for macrophages in infected mice

Immunity

Vattuone, N. H.; et al., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 267-272

Trypanosoma cruzi, mice infected with epimastigotes or trypomastigotes of 3 different strains, cell mediated and humoral immune responses, characterization of antibodies according to criterion of 2-mercaptoethanol sensitivity

Immunity

Viens, P.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 136-139

human toxoplasmosis, seroepidemiologic survey of 4,136 pregnant women for latent infection and their offspring for congenital infection, statistics of survey: Montreal, Quebec, Canada

Immunity

Vollerthun, R.; et al., 1976, *Zentralbl. Vet.-Med., Beihefte* (25), 161-163

Capillaria hepatica, pathophysiology, immunology, *Mastomys natalensis*, rabbits; animal models for human infection studies

Immunity

Wagland, B. M., 1975, *Austral. J. Agric. Research*, v. 26 (6), 1073-1080

Boophilus microplus, responses of previously unexposed *Bos taurus* and *Bos indicus* to four infestations with 20,000 tick larvae, concluded that resistance to *Boophilus microplus* in *Bos indicus* is an acquired not an innate phenomenon

Immunity

Wagner, G. G.; and Duffus, W. P. H., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 97-107

anti-lymphocyte antibody response in cattle inoculated with *Theileria parva*- or *T. lawrencei*-infected lymphoblastoid cell lines, apparently unrelated to specific antibody response to parasite itself, does not appear to either interfere with or enhance development of subsequent immunity to challenge

Immunity

Wakelin, D., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 277 [Demonstration]

Trichuris muris in mice, possible genetic control of immune responses

Immunity

Wakelin, D.; and Lloyd, M., 1976, *Parasitology*, v. 72 (2), 173-182

Trichinella spiralis, young and older NIH strain mice, dynamics of establishment and expulsion of primary and challenge infections, parameters of immunity must be established for each host strain

Immunity

Wakelin, D.; and Lloyd, M., 1976, *Parasitology*, v. 72 (3), 307-315

Trichinella spiralis, mice given mesenteric lymph node cells or serum or both from infected donors, acceleration of worm expulsion

Immunity

Wakelin, D.; and Selby, G. R., 1976, *Parasitology*, v. 72 (1), 41-50

Trichuris muris, immune expulsion from resistant mice, suppression by irradiation, attempts to restore by transfer of mesenteric lymph node cells, bone marrow, or immune serum, results confirm involvement of both antibody-mediated and lymphoid cell-mediated phases in immune expulsion

Immunity

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 74 (3), 215-224

Trichinella spiralis, mice, transfer of immunity with mesenteric lymph node cells: time of appearance of effective cells in donors; expression of immunity in recipients (worm expulsion and impaired worm reproduction may represent independent aspects of immune response)

Immunity

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 74 (3), 225-234

Trichinella spiralis, mice, inhibition of worm expulsion by host irradiation, attempts at reconstitution of immune response gave evidence for involvement of bone marrow-derived cell population in immune expulsion

Immunity

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 75 (2), xiv [Abstract]

Trichinella spiralis, expulsion from mice appears to be dependent on cooperation of immune mesenteric lymph node cells and a bone marrow cell component

Immunity

- Waksman, B. H.; and Cook, J. A., 1975, Am. J. Trop. Med. and Hyg., v. 24 (6, pt. 1), 1037-1039
schistosomiasis, conference report on newer immunologic approaches (antigens, antibodies, cell-mediated immunity, resistance, mechanisms of immunity)

Immunity

- Waldeland, H., 1977, Acta Vet. Scand., v. 18 (2), 237-247
Toxoplasma gondii, sheep, antibody formation, dye test titres higher in ewes that had aborted; course of titre levels in young lambs; titre not influenced by listeric encephalitis; higher titres in sheep with hemoglobin type B

Immunity

- Wallace, L. E.; White, R. G.; and Herbert, W. J., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 279 [Demonstration]
Trypanosoma brucei in Gallus domesticus (exper.), massive segregation of B-cells in germinal centres of spleen

Immunity

- Walliker, D., 1976, Symposia Brit. Soc. Parasitol., v. 14, 25-44
Plasmodium, genetic techniques (hybridization and cloning; genetic markers--enzyme polymorphism, drug-resistance, etc.), genetic recombination experiments, genetic factors influencing host-parasite relationships (strain-specific immunity; virulence), symposium presentation

Immunity

- Walls, R. S.; and Beeson, P. B., 1972, Clin. and Exper. Immunol., v. 12 (1), 111-119
Trichinella spiralis, rats, findings suggest that eosinophilia characteristic of macro-parasitic infestations is related to character of local inflammatory reaction excited by parasites in organs which harbor them

Immunity

- Warren, K. S.; Pelley, R. P.; and Mahmoud, A. A. F., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 957-962
Schistosoma mansoni, mice, effects of curative treatment on resistance to reinfection and on granulomatous hypersensitivity following reinfection, results suggest that both immunity and modulation of immunopathology are residual after curative treatment

Immunity

- Watanabe, N.; et al., 1977, J. Immunol., v. 118 (2), 485-488
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, expression of Ly-1 antigen on helper and non-specific suppressor T cells

Immunity

- Watanabe, N.; Kojima, S.; and Ovary, Z., 1977, J. Immunol., v. 118 (1), 251-255
Nippostrongylus brasiliensis, mice, tolerizing effect of DNP-Ficoll on IgE antibody production

Immunity

- Weathersby, A. B., 1975, Invert. Immun. (Mara-morosch and Shope), 273-288
haemocoel as barrier to parasite infection in insects, review

Immunity

- Webbe, G.; and James, C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 28-29 [Demonstration]; 151-152 [Letter]
Schistosoma haematobium in Papio anubis given trickle infection and then challenged, data provide unequivocal confirmation of development of acquired resistance

Immunity

- Weber, G., 1976, Ztschr. Parasitenk., v. 50 (2), 185
Babesia ovis and B. bigemina in blood films, immunocytochemical detection of catabolic enzymes, possible implications

Immunity

- Wedderburn, N.; Turk, J. L.; and Hutt, M. S. R., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 468-470
chronic malarial infections, mice, histologic changes in spleen and liver, depression of IgG plaque-forming cell response, chronically infected mice as laboratory model for tropical splenomegaly

Immunity

- Weinbaum, F. I.; Evans, C. B.; and Tigelaar, R. E., 1976, J. Immunol., v. 116 (5), 1280-1283
description of in vitro T cell-dependent proliferative response of immune BALB/c mouse spleen cells to Plasmodium berghei yoelii-infected syngeneic RBCs and to saline-soluble-extract prepared from schizonts

Immunity

- Weinbaum, F. I.; Evans, C. B.; and Tigelaar, R. E., 1976, J. Immunol., v. 117 (5), pt. 2, 1999-2005
Plasmodium berghei yoelii, course of infection in T cell and B cell deficient mice, results establish requirement for presence of both T cells and B cells for effective resistance

Immunity

- Weinberg, J. B.; and Hibbs, J. B., jr., 1977, Nature, London (5625), v. 269, 245-247
endocytosis of red blood cells or haemoglobin by activated macrophages from Toxoplasma gondii or BCG-infected mice inhibits tumoricidal effect

Immunity

- Weiner, D. J.; and Soulsby, E. J. L., 1976, J. Parasitol., v. 62 (6), 886-893
Litomosoides carinii, host response to adult worms intrapleurally or intraperitoneally transplanted into infected vs. naive Mastomys natalensis, concluded that preparation period is necessary for successful residence of adult worms

Immunity

- Weinmann, C. J., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 1021-1059
cestodes, immunology, review with brief summary on acanthocephalans

Immunity

- Weintraub, J.; and Weinbaum, F. I., 1977, *J. Immunol.*, v. 118 (6), 2288-2290
Leishmania tropica, BCG-treated mice, reduction in severity of cutaneous disease and significant decrease in mortality without evidence of visceralization when compared with non-treated controls

Immunity

- Weisbroth, S. H.; Wang, R.; and Scher, S., 1973, *Lab. Animal Sc.*, v. 23 (2), 241-247
Cuterebra buccata, natural infections of laboratory *Oryctolagus cuniculus*, gross and microscopic aspects of skin lesions, immediate and delayed hypersensitivity reactions to skin tests, detection of circulating precipitins by immunodiffusion tests

Immunity

- Weise, R.; et al., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 271-278
Plasmodium berghei yoelii, mice, ultrastructure of kidneys, glomerular changes at different stages of disease, findings add to evidence in favour of transient immune complex glomerulonephritis

Immunity

- Weiss, M. L., 1976, *Exper. Parasitol.*, v. 40 (1), 103-111
Plasmodium berghei, mouse strain noninfective but highly immunogenic for *Meriones unguiculatus* was adapted to *M. unguiculatus* through serial passage of infected blood, antigenic changes during adaptation, loss of infectivity for mice, different antigens apparently responsible for immunogenicity vs. infectivity, vaccination led to production of some protective antibody but also to blocking and enhancing antibody

Immunity

- Welch, J. S.; and Dobson, C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (6), 466-472
 comparative fluorescent antibody test survey of Aborigines and Caucasians for presence of antibodies to *Dirofilaria immitis* and correlations with canine filariasis; cross-reactions to *Toxocara canis* observed only in presence of eosinophilia: Queensland, Australia

Immunity

- Welch, S. G.; McGregor, I. A.; and Williams, K., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 295-296
 survey of 2 rural Gambian villages showed total absence of Duffy blood group antigens and absence of *Plasmodium vivax* infection although *P. falciparum*, *P. malariae* and *P. ovale* were present; findings consistent with theory that absence of Duffy phenotypes constitutes basis of innate resistance to *P. vivax*

Immunity

- Wellensiek, H. J.; et al., 1976, *Ztschr. Immunitaetsforsch.*, v. 152 (2), 123 [Abstract]
Toxoplasma gondii, Sabin-Feldman dye test, immunocytolysis caused by properdin-dependent alternate pathway activation of human complement

Immunity

- Weller, T. H., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 208-216
Schistosoma mansoni, Craig Lecture before Am. Soc. Trop. Med. and Hyg.: cultivation in vitro; detection of antigenic materials elaborated in vivo; epidemiology and control

Immunity

- Wells, P. D., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 15 [Demonstration]
Nippostrongylus brasiliensis in rats (exper.), mast cells in lungs after super-challenge infection, no evidence of sudden expulsion of larvae from lungs or adult worms from intestine

Immunity

- Wells, P. D., 1977, *Exper. Parasitol.*, v. 43 (2), 326-335
Nippostrongylus brasiliensis, repeatedly inoculated rats, lung mast cell populations and larval and adult worm populations

Immunity

- Wells, R. A.; and Diggs, C. L., 1976, *J. Parasitol.*, v. 62 (4), 638-639
 protective activity of sera from mice immunized with irradiated *Plasmodium berghei*-infected erythrocytes

Immunity

- Wenk, P., 1977, *Naturw. Rundschau, Stuttgart*, v. 30 (10), 353-359
 helminths, role of immune reactions in host-parasite relationships, life cycles, modes of transmission, superinfection, comprehensive review of complex interrelationships

Immunity

- Wenk, P.; and Wegerhof, P. H., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 180
Litomosoides carinii, cotton rats, effect of previous injection of microfilariae on challenge infection

Immunity

- Werner, H., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 176-177
Toxoplasma, mice, rabbits, congenital infection despite immunity after reinfection during pregnancy

Immunity

- Whitlock, J. H.; and Georgi, J. R., 1976, *Parasitology*, v. 72 (3), 207-224
 biological controls in mixed trichostrongylid infections (predominantly *Haemonchus contortus cayugensis*) in sheep, different ecosystems (barn vs. pasture) and different treatment groups, course of infections (erythrocyte loss, fecal egg counts, hematocrit values), "Anaphylactoid 'self-cure' did not occur in this experiment but something like premunition certainly did."

Immunity

- Whur, P.; and White R. G., 1970, *Internat. Arch. Allergy and Applied Immunol.*, v. 38 (2), 185-195
 fluorescence microscopy of small intestines of commercially slaughtered sheep and of *Nippostrongylus brasiliensis*-infected rats, concluded that globule leucocytes do not contain immunoglobulin

Immunity

- Wikel, S. K.; and Allen, J. R., 1976, *Immunology*, v. 30 (3), 311-316
 Dermacentor andersoni, guinea pigs, development of resistance to larvae, resistance passively transferred with viable lymph node cells but not with serum

Immunity

- Wikel, S. K.; and Allen, J. R., 1976, *Immunology*, v. 30 (4), 479-484
 Dermacentor andersoni, guinea pigs, cyclophosphamide treatment, blockage of acquisition of resistance, partial blockage of expression of resistance, evidence of humoral component to resistance mechanism in addition to previously established cell-mediated component

Immunity

- Wikel, S. K.; and Allen, J. R., 1977, *Immunology*, v. 32 (4), 457-465
 Dermacentor andersoni, guinea-pigs, effect of cobra venom factor (which causes complement depletion) on resistance response, did not alter acquisition of resistance but blocked expression of resistance in an already resistant animal, histologic picture at attachment site

Immunity

- Wilkins, H. A., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 294 [Demonstration]
 Schistosoma haematobium, egg counts in children under 10 varied with season suggesting that worm burdens are influenced both by protective immunity and patterns of water contact

Immunity

- Wilkins, H. A.; and Brown, J., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (5), 726-727 [Letter]
 Schistosoma haematobium, human, elevated plasma IgE levels: The Gambia

Immunity

- Wilkins, H. A.; and Capron, A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 186-195
 Schistosoma haematobium in Gambian community, relation of antibody levels to age (indirect fluorescent antibody and indirect haemagglutination tests), seasonal changes in antibody level, relation of antibody to subsequent changes in egg output, results suggest that serologic parameters may have some relationship to protective immunity and immune response should be considered as factor in epidemiologic studies

Immunity

- Willaert, E.; Jadin, J. B.; and Le Ray, D., 1972, *Protistologica*, v. 8 (4), 497-504
 Naegleria, immunoelectrophoretic analysis of water soluble proteins, comparison of pathogenic and nonpathogenic strains, confirms existence of two separate species and gives evidence of homogeneity of pathogenic strains from different geographic areas, no antigenic relationship with Hartmannella castellanii or Entamoeba histolytica, study of antigenically intermediate strain between Naegleria gruberi and pathogenic Naegleria sp.

Immunity

- Willaert, E.; and Stevens, A. R., 1976, *J. Protozool.*, v. 23 (4), 22A [Abstract]
 Acanthamoeba castellanii, A. culbertsoni, use of antibodies directed against cell surface membranes to distinguish pathogenic from nonpathogenic species

Immunity

- Williams, D. M.; and Remington, J. S., 1977, *Immunology*, v. 32 (1), 19-23
 Trypanosoma cruzi, capable of infecting and multiplying in human monocytes and monocyte-derived macrophages, activated macrophages inhibited intracellular multiplication of parasites and number of parasites in supernatants of activated monolayers markedly decreased

Immunity

- Williams, D. M.; Sawyer, S.; and Remington, J. S., 1976, *J. Infect. Dis.*, v. 134 (6), Dec., 610-623
 mice (exper.) whose macrophages were activated by Trypanosoma cruzi or Besnoitia jellisoni were significantly more resistant to intraperitoneal challenge with T. cruzi than were controls; activated macrophages were able to inhibit completely multiplication of T. cruzi, this suggests that the macrophage may play a major role in resistance to infection

Immunity

- Williams, J. F.; and Oriol, R., 1976, *J. Parasitol.*, v. 62 (4), 563-568
 Echinococcus granulosus, comparative susceptibility of Meriones unguiculatus (most) vs. albino mice (less) vs. golden hamsters (refractory) to infection with protoscolices, indirect haemagglutination titres in M. unguiculatus, failure of M. unguiculatus to develop immediate hypersensitivity responses represents marked deviation from pattern of immune response in echinococcosis in man and domestic animals and must be considered in use of jirds as model host

Immunity

- Willms, K., 1975, *Patologia*, v. 13 (1), 115-125
 Cysticercus cellulosae from pigs, antigens prepared from scolices induce in vitro proliferation of spleen lymphocytes from immunized and control mice, antigen mixture from scolices contains host serum proteins among them pig IgG, preliminary studies with electron microscope demonstrate presence of pig IgG on microvilli of external larval wall

Immunity

- Willms, K.; and Arcos, L., 1977, *Exper. Parasitol.*, v. 43 (2), 396-406
 Taenia solium, immunoglobulin and other host serum proteins on cysticercus surface identified by ultrastructural immunoenzyme technique

Immunity

- Wilson, R. A.; and Barnes, P. E., 1977, *Parasitology*, v. 74 (1), 61-71
 Schistosoma mansoni tegument, formation and turnover of membranocalyx, possible significance in evasion of immune response

Immunity

Wilson, R. A.; and Barnes, P. E., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 289-290 [Demonstration]

schistosome tegument, multilaminar structure composed of normal trilaminar plasmamembrane over which lies a trilaminar secretion (membranocalyx), suggests that secreted membranocalyx functions as part of mechanism by which worm evades host immune response

Immunity

Wilson, R. J. M.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 308-312

Plasmodium falciparum, human, precipitating antibody response to malarial S-antigens, age distribution, other factors affecting production and detection of such antibodies: The Gambia

Immunity

Wilson, R. J. M.; and Phillips, R. S., 1976, Nature, London (5573), v. 263, 132-134

Plasmodium falciparum in Gambian children, in vitro screening of sera for anti-Plasmodium falciparum activity raised questions about antigenic diversity and duration of inhibitory antibody response, method devised to test known homologous or heterologous combinations of parasitised cells and sera (parasite multiplication and uptake of ³H-isoleucine in serum obtained before and after chloroquine treatment)

Immunity

Wilson, R. J. M.; and Phillips, R. S., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 279-280 [Demonstration]

Plasmodium falciparum, multiplication in vitro of cryopreserved parasites as a method to test inhibitory antibody responses to wild populations of parasites of potentially disparate antigenicity

Immunity

Wilson, R. J. M.; and Williams, K., 1973, Ann. Trop. Med. and Parasitol., v. 67 (1), 15-20

European with suspected pyrimethamine-resistant malaria, serological study (fluorescent antibody test, C-reactive protein, precipitin test, immunoglobulin levels), precipitating antibodies demonstrated against two specific malarial antigens, differences from antibodies seen in sera from repeatedly infected Africans: The Gambia, West Africa

Immunity

Wilson, V.C.L.C.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 271-272 [Abstract]

Trypanosoma musculi, persistence in vasa recta of kidney of immune mice; T. lewisi did not persist in immune rats

Immunity

Wing, E. J.; et al., 1977, Nature, London (5621), v. 268, 642-644

macrophages activated by infection with Toxoplasma gondii or Trichinella spiralis, ability to inhibit tumor cell DNA synthesis and to inhibit intracellular multiplication of Toxoplasma gondii, results show that macrophages characterized as activated by one criterion may not satisfy other criteria of activation and that differences in functional capacity depend on the method used to activate the macrophages

Immunity

Wolf, R. E., 1976, J. Parasitol., v. 62 (2), 209-214

Leishmania tropica yotvata, Macaca mulatta as possible simian model of human disease, primary, secondary, and tertiary infection, clinical resistance, cellular- and humoral-immune responses, effects of antilymphocyte globulin therapy, results quantitatively and qualitatively different from those in humans

Immunity

Wolf, R. E., 1977, Clin. Immunol. and Immunopathol., v. 2 (3), 381-394

Babesia microti, effects of antilymphocyte serum and splenectomy on resistance to infection in hamsters, results suggest that although cellular immunity is major factor in host resistance humoral antibody may modify parasitemia and thus give some protection

Immunity

Wong, M. M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (6), 479-490

Dirofilaria immitis in normal and immunosuppressed Macaca spp., histopathology, W.B.C. and eosinophil counts, radiological examination, serological examination by IFA test, recovery of adult worms only in immunosuppressed hosts indicates that host susceptibility rather than parasite infectivity was the factor concerned

Immunity

Wong, M. M., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (4), 480-486

Dirofilaria immitis, dirofilariasis without microfilaremia produced in dogs (exper.), immunologic responses analogized to etiology of tropical eosinophilic lung in humans

Immunity

Wong, M. M., 1976, Am. J. Trop. Med. and Hyg., v. 25 (1), 88-93

Dirofilaria repens, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered in 10 of 13 but microfilaremia seen only in prednisolone-treated animals, host responses (eosinophilia and filarial antibodies)

Immunity

Wong, M. M.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (2), 265-273

Brugia malayi, summary of longitudinal studies of 28 rhesus monkeys experimentally infected with single, double or multiple inoculations of larvae: clinical aspects, antibody responses, pathology, treatment with diethylcarbamazine, host biochemical changes, microfilaremia

Immunity

- Wong, M. M.; and Lim, K. C., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 94-98
Dirofilaria tenuis, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered from 7 of 11 but microfilariaemia seen only in a prednisolone-treated animal, host responses (eosinophilia and filarial antibodies)

Immunity

- Wright, S. G.; and Tomkins, A. M., 1977, *Clin. and Exper. Immunol.*, v. 29 (3), 408-412
Giardia lamblia, humans, quantification of lymphocytic infiltrate in jejunal epithelium, increased numbers of intraepithelial lymphocytes in patients with giardiasis and abnormal intestinal absorption compared with both control patients and patients with giardiasis and normal absorption

Immunity

- Wyer, D. J., 1976, *Clin. and Exper. Immunol.*, v. 23 (3), 471-476
Plasmodium falciparum, human (30 children, 3 adults), peripheral lymphocyte subpopulations altered by infection, decrease in % and concentration of T cells, increase in % but not concentration of B cells, increase in % and concentration of 'null' cells, effects rapidly reversible after antimalarial treatment, presumably represent sequestration of T cells in spleen or other organs: The Gambia, West Africa

Immunity

- Wyer, D. J.; and Brown, J., 1977, *Clin. and Exper. Immunol.*, v. 29 (3), 401-407
Plasmodium falciparum, malaria antigen-specific T-cell responsiveness not abrogated during infection, need for further work to identify basis of immunosuppression in malarial infection; possibility of acquiring sensitized T cells without experiencing clinically apparent infections

Immunity

- Wyer, D. J.; and Gallin, J. I., 1977, *J. Immunol.*, v. 118 (2), 478-484
Plasmodium spp. in mice and monkeys, spleen-derived mononuclear cell chemotactic factor as a possible mechanism for splenic macrophage accumulation

Immunity

- Wyer, D. J.; Miller, L. H.; and Schmidt, L. H., 1977, *J. Infect. Dis.*, v. 135 (1), 86-93
Plasmodium inui, intact and splenectomized rhesus monkeys (exper.), role of spleen in host defense and chronicity in malaria infection, results suggest that the spleen plays a protective role during the acute infection and a suppressive role during the chronic phase

Immunity

- Yasuraoka, K.; et al., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 197
Schistosoma japonicum, Philippine strain, culture from cercarial stage, effects of immune rabbit and human sera in vitro, preliminary report

Immunity

- Yokogawa, M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 581-586
 increased levels of IgE in sera and pleural exudates of patients infected with *Paragonimus*, pleural levels significantly higher than serum levels in *Paragonimus miyazakii* infections when concentrations determined using radioimmunoabsorbents and antigens of *Paragonimus* spp.

Immunity

- Yoshimura, K.; et al., 1976, *Japan. J. Vet. Sc.*, v. 38 (6), 579-593
Angiostrongylus cantonensis, guinea pigs, rats, evolution of cellular (macrophage migration inhibitory factor; delayed-type skin reactivity) and humoral (hemagglutinating and precipitating antibodies) immune responses

Immunity

- Yoshimura, K.; and Soulsby, E. J. L., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 99-107
Angiostrongylus cantonensis, rats, lymphoid cell responsiveness, antibody production (reaginic and haemagglutinating)

Immunity

- Yoshino, T. P., 1976, *Internat. J. Parasitol.*, v. 6 (5), 423-431
Renicola buchanani sporocysts, encapsulation response of *Cerithidea californica*, capsule formation is considered a type of leucocytic encapsulation specifically designated hyalinocytic encapsulation

Immunity

- Yoshino, T. P.; Cheng, T. C.; and Renwrtantz, L. R., 1977, *J. Parasitol.*, v. 63 (5), 818-824
Schistosoma mansoni, surface determinants for various lectins and human blood group antibodies, alteration following transformation of miracidium to mother sporocyst, evidence of shared determinants with snail (*Biomphalaria glabrata*) host

Immunity

- Young, A. S.; et al., 1977, *Tropenmed. u. Parasitol.*, v. 28 (2), 185-194
 successful transmission of *Theileria* parasites from eland (*Taurotragus oryx*) to cattle by feeding *Rhipicephalus appendiculatus* and *R. pulchellus* on them; cattle recovered from infections produced antibodies to *Theileria* sp. (eland) and *T. sp.* (Githunguri) previously also recovered from cattle, indications that the 2 species may be related and possibly represent a new species infective for cattle

Immunity

- Zahalsky, A. C.; and Weinberg, R. L., 1976, *J. Parasitol.*, v. 62 (1), 15-19
Trypanosoma brucei, inbred rats, humoral response to monomorphic strain during infection, during Berenil cure, after cure, and after re-challenge following drug-induced immunity; contribution of Berenil prophylaxis during refractory period, presence or absence of trypanosome-agglutinating antibodies, class of protective antibodies formed

Immunity

- Zander, B.; and Hoerchner, F., 1976, Ztschr. Parasitenk., v. 50 (2), 178
Trichinella spiralis, guinea pigs, serum titration before and after mebendazole treatment

Immunity

- Zeromski, J.; and Jazbor, A., 1969, Acta Parasitol. Polon., v. 17 (1-19), 119-125
Trichinella spiralis, rats, localization of antigens by direct and indirect immunofluorescence, methods compared, antigens found only within developing parasite, probably immunological mechanisms not active in production of clinical symptoms

Immunity

- Zimmermann, W. J., 1976, Pub. Health Rep., U.S. Pub. Health and Mar. Hosp. Serv., v. 91 (6), 526-532
Toxoplasma gondii, no definitive relationships could be determined between epidemiologic characteristics examined and the presence of antibodies to toxoplasmosis in survey of veterinary college staff and students at the Iowa State University

Immunity

- Zuckerman, A., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 793-829
 rodent malaria, immunology, review

Immunity

- Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446
Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunity

- Zuckerman, A.; et al., 1977, J. Protozool., v. 24 (2), Suppl., 20A [Abstract]
Plasmodium berghei-immune donor rats treated with cyclophosphamide, residual spleen cell population retained protection-inducing potential, cyclophosphamide mainly destroyed B-cells but also reduced relative number of T-cells

Immunity

- Zuckerman, A.; and Jacobson, R. L., 1976, Internat. J. Parasitol., v. 6 (2), 103-106
Plasmodium berghei, rats, transfer of normal or immune spleen cells induces accelerated fluorescent antibody response, only immune cells induce protection against challenge; pre-treatment of donors with cyclophosphamide depletes spleens but affects neither antibody response nor protection-inducing potential in recipients

Immunity

- Zuckerman, A.; Spira, D. T.; and Golenser, J., 1977, J. Protozool., v. 24 (2), Suppl., 20A [Abstract]
Plasmodium berghei-immune donor rats treated with cyclophosphamide, residual spleen cell population retained protection-inducing potential, cyclophosphamide mainly destroyed B-cells but also reduced relative number of T-cells

Immunity, Adoptive. See Immunity, Passive.

Immunity, Agar gel diffusion. See Immunity, Precipitation.

Immunity, Agglutination

- Abioye, A. A., 1976, J. Trop. Med. and Hyg., v. 79 (11), 252-255
Entamoeba histolytica, drug (emetine, metronidazole) and immuno-diagnostic (fluorescent antibody, gel diffusion and latex agglutination tests) resistant amoebic hepatic abscess in man, case report, blood-abscess cavity barrier postulated as possible mechanism for diagnostic failure: Nigeria

Immunity, Agglutination

- Aguilar-Torres, F. G.; Rytel, M. W.; and Kagan, I. G., 1976, Am. J. Trop. Med. and Hyg., v. 25 (5), 667-670
Trypanosoma cruzi, human, comparison of counterimmunoelectrophoresis with latex agglutination and indirect hemagglutination in detection of antibodies, use as epidemiologic tool

Immunity, Agglutination

- Aiyedun, B. A.; and Amodu, A. A., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 282-283 [Abstract]
 trypanosomiasis, human, diagnosis, capillary-tube agglutination test used in field surveys in an endemic area: Benue Plateau State

Immunity, Agglutination

- Aiyedun, B. A.; and Amodu, A. A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 67-71
 trypanosomiasis, albino rats (exper.), humans, diagnosis, capillary-tube precipitation test (known as capillary-tube agglutination test), rapid and specific technique that could be used in field survey work

Immunity, Agglutination

- Alley, J. L.; and Christenberry, C. C., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 137-140
 anaplasmosis, cattle, comparison of rapid card agglutination test with complement fixation test showed overall agreement of 93.9% for unvaccinated animals and 77.9% for vaccinated herds; demonstration that anaplasmosis can be eliminated from a herd of cattle by isolation and aureomycin treatment of infected animals detected exclusively on basis of card agglutination test results

Immunity, Agglutination

- do Amaral, V.; Santos, S. M.; and Reboucas, M. M., 1975, Biologico, S. Paulo, v. 41 (4), 105-107
Toxoplasma gondii, prevalence of antibodies in pigs, hemagglutination test: States of Sao Paulo and Rio Grande do Sul, Brazil

- Immunity, Agglutination
 Ambroise-Thomas, P.; and Meyer, H. A., 1975, *Acta Trop.*, v. 32 (4), 359-364
Entamoeba histolytica, hepatic amoebiasis, human, diagnosis, agglutination and indirect fluorescent antibody tests, clinical trials with Tinidazole (Fasigyn), well tolerated with encouraging results but some cases required supplementary treatment with metronidazole: region of Kilimanjaro, northeast Tanzania
- Immunity, Agglutination
 Amerault, T. E., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 133-135
Anaplasma marginale, cattle, diagnosis, review of card test (nature and production of test antigen; card test procedure for plasma and serum; comparison of card test, complement fixation test, and calf inoculation results)
- Immunity, Agglutination
 Amerault, T. E.; and Roby, T. O., 1977, *World Animal Rev.* (22), 34-38
 card test as an accurate and simple procedure for detecting *Anaplasma marginale* in cattle, possible use for determining wildlife reservoirs of anaplasmosis and detecting babesiosis, review
- Immunity, Agglutination
 Apt, W.; et al., 1970, *Bol. Chileno Parasitol.*, v. 25 (1-2), 37-41
Toxoplasma gondii, human, diagnosis, establishment of criteria for interpretation of toxoplasmin skin test and comparison with results of hemagglutination test
- Immunity, Agglutination
 Arnaudov, D.; et al., 1976, *Vet. Med., Praha*, v. 49, v. 21 (6), 375-384
Toxoplasma gondii, sheep, immunoepidemiological study by hemagglutination, indirect fluorescence, and microprecipitation reaction in agar gel; higher incidence in aborting ewes and in sheep in montane regions: Bulgaria; Czechoslovakia
- Immunity, Agglutination
 Averbach, S.; et al., 1975, *Medicina, Buenos Aires*, v. 35 (5), 469-476
Toxoplasma gondii, human, diagnostic differentiation of acute vs. chronic infection, direct agglutination test with and without treatment of sera with 2-mercaptoethanol is convenient tool for detecting only specific IgM antibody response at early stage of infection, comparison with immunofluorescence
- Immunity, Agglutination
 Baldini, I.; Pala, V.; and Ferro, M., 1974, *Pathologica* (959-960), v. 66, 339-349
Ascaris lumbricoides in humans, complement fixation, passive agglutination and latex agglutination compared with direct fecal examination as means of diagnosis
- Immunity, Agglutination
 Barrett-Connor, E.; et al., 1976, *J. Infect. Dis.*, v. 133 (4), 473-477
Trichinella spiralis, outbreak in campers after eating roasted wild pig, diagnosis by eosinophilia and sero-immunologic studies; diagnostic test comparisons, skin-test antigen inconclusive: California (infected in Hawaii)
- Immunity, Agglutination
 Barriga, O. O., 1977, *J. Clin. Microbiol.*, v. 6 (3), 274-279
Trichinella spiralis, different antigenic fractions, reactivity and specificity (tested for cross-reactions against *Ascaris suum*) in cutaneous (immediate and delayed) and serological (bentonite agglutination, hemagglutination, hemagglutination inhibition) tests, implications for clinical diagnosis of trichinellosis
- Immunity, Agglutination
 Benjamin, D. B.; and Soulsby, E. J. L., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 266-272
Brugia pahangi in *Mastomys natalensis*, homocytotropic and hemagglutinating antibody responses detected using *Dirofilaria immitis* as antigen
- Immunity, Agglutination
 Benkova, M.; and Boroskova, Z., 1976, *Vet. Med., Praha*, v. 49, v. 21 (6), 369-373
Ascaris suum, rabbit (non-specific host), demonstration of migration phase, sensitivity of complement-fixation and latex-fixation test
- Immunity, Agglutination
 Budden, J. R.; and Dimopoulos, G. T., 1977, *Am. J. Vet. Research*, v. 38 (5), 633-636
Anaplasma marginale, finite purification, antibody in anaplasmosis detected by agglutination tests is directed against erythrocytic stromata, not against finitely purified anaplasma bodies
- Immunity, Agglutination
 Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, *Am. J. Vet. Research*, v. 37 (9), 1059-1063
Anaplasma marginale, effect of blood group substances vs. parasitic components on induction of delayed cutaneous hypersensitivity and production of isoagglutinins in cattle injected with live or inactivated parasites in ovine or bovine erythrocytes, results indicate that inactivated sheep origin vaccine may avoid eliciting neonatal isoerythrolysis syndrome in calves from vaccinated dams
- Immunity, Agglutination
 Cesari, I. M., 1976, *Internat. J. Parasitol.*, v. 6 (4), 295-298
Schistosoma mansoni, presence of membrane-associated agglutinin directed against surface molecular determinants of untreated mouse and rat erythrocytes, seems to be host-independent worm membrane receptor, possible role in host-parasite adaptation mechanism

Immunity, Agglutination

Cesari, I. M.; and Marchiani, C., 1977, *Internat. J. Parasitol.*, v. 7 (4), 275-279

Schistosoma mansoni, membrane-associated agglutinin, inhibition studies, suggested that agglutinin might catch antigenic material onto worm surface and disguise it from host's immunological recognition

Immunity, Agglutination

Chang, K.-P., 1976, *J. Protozool.*, v. 23 (2), 241-244

Blastocrithidia culicis, *Crithidia oncopeleti*, symbiote-free strains: liver extract as essential growth factor in defined medium; cross-reactivity in reciprocal agglutination test with symbiote-containing strains indicates loss of symbiotes does not affect antigenic identity

Immunity, Agglutination

Chun, M. L.; and Cross, J. H., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (4), 625-630

Entamoeba histolytica, comparison of hemagglutination, counterimmuno-electrophoresis and immunoelectrophoresis test for detecting antigen-antibody reactions in human serum, greatest number of components demonstrated by two-dimensional electrophoresis

Immunity, Agglutination

Clarkson, M. J.; Cottrell, B. A.; and Toro, M., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 10-11 [Demonstration]

animal trypanosomiasis, diagnosis by capillary-tube agglutination test using *Trypanosoma vivax* antigen, cattle (nat. and exper.), sheep (exper.), goats (exper.): Venezuela

Immunity, Agglutination

Colley, D. G., 1975, *J. Immunol.*, v. 115 (4), 150-156

Schistosoma mansoni, mice, chronic primary infection, immune responses to soluble egg antigen (lymphocyte blastogenesis, production of lymphokine eosinophil stimulation promoter, haemagglutinating antibody, PGA antibodies, peripheral blood eosinophilia), relationship to anti-egg granulomatous response and pathogenesis of the disease

Immunity, Agglutination

Collins, W. E.; Lunde, M. N.; and Skinner, J. C., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 442-446

measurement of developing antibodies to *Plasmodium vivax* comparing results of indirect hemagglutination and indirect fluorescent antibody tests, effects of short-term infections on development and persistence of antibody response and effect of relapse on response

Immunity, Agglutination

Cornish, J.; LeFlore, W. B.; and Smith, B. F., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 266-267 [Abstract]

Cysticercus fasciolaris, sensitivity of micro-precipitation, agar-gel precipitation, immunoelectrophoresis, and indirect hemagglutination tests; cross-reaction with *Taenia crassiceps*, no cross-reaction with *T. saginata* and *Echinococcus granulosus*

Immunity, Agglutination

D'Alessandro, P. A., 1976, *J. Protozool.*, v. 23 (2), 256-261

Trypanosoma lewisi, specificity of agglutinins elicited by 2 antigenic variants studied with classical adsorption and agglutination methods and newer immunoelectroadsorption technique

Immunity, Agglutination

De Rosa, F.; et al., 1972, *Parassitologia*, v. 14 (2-3), 293-302

Echinococcus, human, complement fixation reaction, indirect hemagglutination, comparison, epidemiological applications, case histories

Immunity, Agglutination

Desmonts, G.; et al., 1974, *Nouv. Presse Med.*, v. 3 (24), 1547-1549

human toxoplasmosis, human sera with negative dye tests and negative immunofluorescence, agglutination of parasites using Fulin test with highly sensitive antigen, results probably due to natural IgM antibodies against the parasites

Immunity, Agglutination

Dhar, S.; and Gautam, O. P., 1977, *Indian J. Animal Sc.*, v. 47 (8), 458-462

Theileria annulata, cattle (nat. and exper.), capillary-tube agglutination test

Immunity, Agglutination

Dhar, S.; and Gautam, O. P., 1977, *Indian J. Animal Sc.*, v. 47 (9), 566-570

Theileria annulata, cattle (nat. and exper.), haemagglutination-inhibition, indirect haemagglutination, and agar-gel-precipitation tests evaluated, haemagglutination-inhibition test most sensitive and more reliable than blood smear examination in predicting latent *Theileria* infection

Immunity, Agglutination

Dimopoulos, G. T.; and Finerty, J. F., 1976, *Am. J. Vet. Research*, v. 37 (6), 693-695

Anaplasma marginale, *Plasmodium lophurae*, *P. berghei*, cross reactivity in passive haemagglutination tests

Immunity, Agglutination

Doby, J. M.; and Kombila-Favry, M., 1974, *Medicine et Malad. Infect.*, v. 4 (7), 397-401

human toxoplasmosis, immunofluorescence and agglutination and detection of immunoglobulin M, most reliable seroimmunologic tests for diagnosis

Immunity, Agglutination

Dooris, P. M.; and McGhee, R. B., 1976, *J. Protozool.*, v. 23 (3), 433-437

Crithidia hamosa, *C. fasciculata*, differentiation by immunological methods (agglutination, indirect fluorescent antibody) and by polyacrylamide gel slab electrophoresis (number and relative mobilities of component protein bands)

- Immunity, Agglutination
Duffus, W.P.H.; Preston, J. M.; and Staak, C. H., 1975, *J. Helminth.*, v. 49 (1), 1-7
Schistosoma bovis, fractionation of adult worm antigen, use in complement fixation, immuno-diffusion, indirect haemagglutination and indirect haemagglutination inhibition tests, cross-reactions using sera from *Fasciola gigantica*-infected cattle
- Immunity, Agglutination
Durfee, P. T.; et al., 1974, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 5 (1), 4-8
Toxoplasma gondii, lack of sensitivity of indirect hemagglutination test for detecting swine serum antibody titers, therefore not of value in tests for prevalence of toxoplasmosis in swine populations
- Immunity, Agglutination
Dwyer, D. M., 1976, *Proc. Nat. Acad. Sc.*, v. 73 (4), 1222-1226
Trypanosoma lewisi, bloodstream forms isolated from rats, ultrastructural and immunologic evidence of avidly bound host serum proteins in surface coat, not present in intact culture or trypsinized bloodstream forms but reacquired after incubation in heterologous host serum proteins
- Immunity, Agglutination
Dwyer, D. M.; and D'Alesandro, P. A., 1976, *J. Protozool.*, v. 23 (2), 262-271
Trypanosoma musculi bloodstream forms, lectin agglutination, fine structure localization of concanavalin A sites, antibody agglutinations (regular presence of surface-bound host serum proteins; induced surface adsorption of serum proteins), fine structural evidence of host serum in surface coat
- Immunity, Agglutination
Dymowska, Z.; and Sporzynska, Z., 1973, *Med. Dosw. i Mikrobiol.*, v. 25 (4), 339-343
Toxoplasma gondii, human, evaluation of passive agglutination test for diagnosis, comparison with complement fixation and immunofluorescence
- Immunity, Agglutination
Dymowska, Z.; and Zielinska, E., 1975, *Med. Dosw. i Mikrobiol.*, v. 27 (4), 411-415
Toxoplasma gondii, human, antigen for passive hemagglutination obtained by ultrasonic disintegration of cells highly specific for diagnosis, comparative trials
- Immunity, Agglutination
Eimontas, Z. I.; and Medzevicius, A. K., 1974, *Lietuvos TSR Moks. Akad. Darbai, s. C* (68) (4), 65-76
Trichocephalus suis, pigs, immunization with gamma globulin from immune and normal pigs, antibody dynamics, investigation by precipitation and agglutination
- Immunity, Agglutination
Ejden, J., 1970, *Medicina*, Buenos Aires, v. 30 (5), 427-432
latex agglutination test useful tool in epidemiologic surveys of large populations in endemic areas of human echinococcosis, comparison with passive hemagglutination test
- Immunity, Agglutination
Ejden, J.; and Inglesini, C. L., 1972, *Medicina*, Buenos Aires, v. 32 (3), 231-234
IgG established as immunoglobulin responsible for reactions of passive hemagglutination and latex agglutination tests in diagnosis of human echinococcosis
- Immunity, Agglutination
Enayat, M. S.; and Pezeshki, M., 1977, *J. Helminth.*, v. 51 (2), 143-148
Toxocara canis, guinea pigs (exper.), comparison of counterimmunoelectrophoresis with indirect haemagglutination test for detection of antibodies, possible use of these techniques for immunodiagnosis of human visceral larva migrans
- Immunity, Agglutination
Felgner, P.; and Lederer, I., 1976, *Tropenmed. u. Parasitol.*, v. 27 (2), 165-168
comparative study using complement fixation, indirect agglutination and latex agglutination tests in immunodiagnosis of amoebiasis (differently prepared antigens, specific recommendations for latex agglutination, long-term storage of sensitized sheep red cells and temperature variations)
- Immunity, Agglutination
Fromentin, H.; and Wiart, J., 1975, *Bull. Soc. Path. Exot.*, v. 68 (3), 306-312
2 specific antigenic fractions of *Trypanosoma gambiense* demonstrated by tannic acid hemagglutination when applied to experimentally infected rodent sera
- Immunity, Agglutination
Gancarz, Z., 1974, *Med. Dosw. i Mikrobiol.*, v. 26 (1-2), 157-167
Trichinella spiralis, pigs, rabbits (exper.), bentonite flocculation most successful for mass human diagnosis, comparative laboratory trials
- Immunity, Agglutination
Garabedian, G. A.; and Zekian-Arslanian, B., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (4), 435-437
hydatid fluid antigen, filtration through Seitz EK filter pads, unsuitable for use in Casoni skin tests or indirect haemagglutination tests, membrane filters more satisfactory
- Immunity, Agglutination
Gastaut, J. A.; Ranque, P.; and Quilici, M., 1972, *Marseille Med.*, v. 109 (10), 627-629
amoebiasis, human, diagnosis using immunofluorescence or agglutination, comparison trials
- Immunity, Agglutination
Gehle, W. D.; Smith, K. O.; and Fuccillo, D. A., 1976, *Infect. and Immun.*, v. 14 (5), 1253-1255
Toxoplasma gondii, solid-phase radioimmunoassay, results show good correlation with indirect hemagglutination test

Immunity, Agglutination

- Ghose, A. C., 1976, *Experientia*, v. 32 (8), 1059-1061
sera from guinea pigs infected with *Leishmania enriettii* showed higher hemagglutination titres for neuraminidase-treated human erythrocytes than those of normal guinea pigs

Immunity, Agglutination

- Goedbloed, E.; et al., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (1), 31-43
Trypanosoma brucei subgroup, antigenic types of 38 strains isolated from more than 73,000 *Glossina* spp. from 4 geographically separate areas, intra- and inter-area and intra- and inter-strain comparisons, direct agglutination test used primarily: Uganda and Kenya, East Africa

Immunity, Agglutination

- Gomez, V.; et al., 1974, *Rev. Iber. Parasitol.*, v. 34 (3-4), 317-322
Trichinella spiralis, human, C-reactive proteins in serum associated with non-specific reactions to haemagglutination tests

Immunity, Agglutination

- Goodger, B. V., 1973, *Austral. Vet. J.*, v. 49 (2), 81-84
improved sensitivity of haemagglutination test for *Babesia bigemina* antibody using antigen obtained from lysate of infected erythrocytes; cross-reaction with *B. argentina* antisera, comparing cross-reactions of antigens from both species enables differentiation without inhibition techniques

Immunity, Agglutination

- Goodger, B. V., 1976, *Internat. J. Parasitol.*, v. 6 (3), 213-216
Babesia argentina, crude soluble haemagglutination antigen contained fibrinogen, removal of fibrinogen removed most if not all antigenic activity, concluded that antigen was either babesial moiety complexed with fibrinogen or a fibrinogen molecule altered by parasite metabolic activity

Immunity, Agglutination

- Gray, A. R., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 150-151 [Abstract]
Trypanosoma gambiense, isolates from different countries in Africa show close antigenic relationship

Immunity, Agglutination

- Gray, A. R., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 131-138
Trypanosoma gambiense transmitted by tsetse flies to rabbits and monkeys, developmental patterns of agglutinogenic antigens in cyclically transmitted isolates

Immunity, Agglutination

- Grove, D. I.; Warren, K. S.; and Mahmoud, A. A. F., 1976, *J. Infect. Dis.*, v. 133 (3), 354-358
clinical, diagnostic and epidemiologic review of human forms of echinococcosis

Immunity, Agglutination

- Guisantes, J. A.; and Varela-Diaz, V. M., 1975, *Bol. Chileno Parasitol.*, v. 30 (3-4), 54-57
human echinococcosis, comparative trials using latex agglutination, double diffusion and immunoelectrophoresis for diagnosis

Immunity, Agglutination

- Hagiwara, T.; Katsube, Y.; and Hanaki, T., 1976, *Japan. J. Vet. Sc.*, v. 38 (5), 517-520
Toxoplasma, swine, dye and hemagglutination tests evaluated for detection of latent infection

Immunity, Agglutination

- Haider, Z.; Rasul, A.; and un-Din, F., 1974, *Pakistan J. Med. Research*, v. 13 (2-3), 39-42
human hepatic and intestinal amoebiasis, diagnosis using latex agglutination test

Immunity, Agglutination

- Hajela, S. K.; Bhatia, B. B.; and Rai, D. N., 1976, *Indian J. Animal Research*, v. 10 (1), 45-46
Schistosoma incognitum, piglets (exper.), haemagglutination test, possible application in epidemiological studies

Immunity, Agglutination

- Hansen, I. M., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 422-426
Schistosoma mansoni, diagnosis, re-evaluation of slide flocculation test, high sensitivity and specificity when "stunted schistosomes" from rabbits were used as antigen, cercarial antigen showed extensive cross reactions, antigen from mature adult worms could not be coated with cholesterol-lecithin crystals as required

Immunity, Agglutination

- Hanson, W. L.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 117-131
Trypanosoma cruzi, detection of small numbers of viable or virulent parasites in blood and other fluids by Vero cell culture procedure or by mouse inoculation, immunization of mice with irradiated trypomastigotes and amastigotes, serology as determined by indirect fluorescent antibody and agglutination tests

Immunity, Agglutination

- Henning, J.; et al., 1974, *Behring Inst. Mitt.* (54), 107-109
[*Cysticercus*] *bovis*, calves (exper.), indirect haemagglutination tests with antigens from [*Cysticercus*] *bovis*, [*Cysticercus*] *longicollis* and [*Taenia*] *saginata*, all suitable except with infections of less than ten parasites

Immunity, Agglutination

Herbert, I. V.; and Oberg, C., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 199-211
Taenia solium, incidence in man in Chile, pigs (exper.), immunological responses, in vivo and in vitro manifestations, skin testing, passive cutaneous anaphylaxis, indirect haemagglutination, attempt to correlate with autopsy findings for possible serologic diagnosis, some results with *T. hydatigena* also

Immunity, Agglutination

Herd, R. P., 1976, Parasitology, v. 72 (3), 325-334
Echinococcus granulosus protoscoleces and adults, effects of complement and/or specific antibodies in vitro

Immunity, Agglutination

Hoerchner, F.; Grelck, H.; and Flasshoff, F. G., 1976, Berl. u. Munchen. Tierarztl. Wchnschr., v. 89 (15), 296-300
Fasciola hepatica, cattle, diagnosis, comparison of one-time fecal examination and various serological tests, confirmation by post-mortem liver and bile examination; indirect immunofluorescence test better than agar gel precipitation, latex agglutination or fecal examination; duration of egg-shedding after treatment with Dirian

Immunity, Agglutination

Hoghooghi, N.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 660-661
 evaluation of the slide-latex agglutination test and comparison with Casoni intradermal test for sensitivity and specificity in diagnosis of human echinococcosis

Immunity, Agglutination

Howarth, J. A.; Hokama, Y.; and Amerault, T. E., 1976, J. Wildlife Dis., v. 12 (3), 427-434
Anaplasma marginale, detection in wild *Odocoileus hemionus columbianus* using modified card agglutination test, accuracy confirmed by calf inoculation with deer blood: California

Immunity, Agglutination

Huebner, J.; et al., 1973, J. Protozool., v. 20 (4), 536
Encephalitozoon cuniculi, serodiagnosis, indirect micro-haemagglutination test not successful, microprecipitation in agar gel may have potential

Immunity, Agglutination

Hungerer, K. D.; et al., 1974, Behring Inst. Mitt. (54), 100-106
C[ysticercus] bovis, *C. longicollis*, *T[ae]nia saginata*, production and purification of antigens, use in indirect haemagglutination test, tests of cross reactions

Immunity, Agglutination

Jackson, T. F. H. G.; and De Moor, P. P., 1976, J. Helminth., v. 50 (2), 59-63
Schistosoma haematobium, human, hemagglutination tests using *Bulinus africanus* extract as antigen, frequency and titres of anti-snail antibodies significantly greater in infected than in non-infected individuals and in populations from endemic vs. non-endemic areas

Immunity, Agglutination

Jatkar, P. R.; Rao, P. V.; and Singh, M., 1977, Indian Vet. J., v. 54 (10), 795-797
Trypanosoma evansi, camels, diagnosis by capillary agglutination test; standardization and improved methods of antigen preservation needed

Immunity, Agglutination

Jones, H. I., 1977, Ann. Trop. Med. and Parasitol., v. 71 (2), 219-226
 use of haemagglutination test as aid in study of epidemiology of human *Ascaris lumbricoides* infections, A. suum used as antigen: Papua New Guinea and East Timor

Immunity, Agglutination

Kamiya, M., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 570-571 [Demonstration]
Angiostrongylus cantonensis, positive indirect hemagglutination titers in experimentally infected rats after early stages of infections

Immunity, Agglutination

Kamiya, M.; and Klongkamnuankarn, K., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 571-572 [Demonstration]
Angiostrongylus cantonensis, rats (exper.), hemagglutination activity after transfer of adult worms to abdominal cavity of noninfected rats

Immunity, Agglutination

Kamiya, M.; and Klongkamnuankarn, K., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 572-573 [Demonstration]
Angiostrongylus cantonensis, fractionation of serum of rats (exper.) with sephadex G2-00 chromatography, hemagglutination tests of each fraction

Immunity, Agglutination

Kamiya, M.; and Klongkamnuankarn, K., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 573 [Demonstration]
Angiostrongylus cantonensis, rabbits as experimental host model, immunological response to hemagglutination test

Immunity, Agglutination

Kamiya, M.; Klongkamnuankarn, K.; and Bunnag, D., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 574 [Demonstration]
Angiostrongylus cantonensis, evaluation of hemagglutination test for diagnosis of infection in man

- Immunity, Agglutination**
 Kamiya, M.; Tharavanij, S.; and Harinasuta, C., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (2), 187-194
 Angiostrongylus cantonensis, fractionation of male and female antigen extracts, antigenicity of each fraction determined by indirect hemagglutination and immunoelectrophoresis tests
- Immunity, Agglutination**
 Katz, S. P.; and Colley, D. G., 1976, Infect. and Immun., v. 14 (2), 502-508
 Schistosoma mansoni, mice, induction of cellular and humoral immunological reactivity to soluble cercarial antigen preparation, assayed by in vitro lymphocyte blastogenic activity and by presence of agglutinating and reaginic antibody activity
- Immunity, Agglutination**
 Klimowicz, J.; Gancarz, Z.; and Wyrzykowski, J., 1975, Przegl. Lek., v. 32 (12), 876-878
 human trichinosis, use of immunofluorescence and passive hemagglutination tests for diagnosis and for epidemiologic surveys
- Immunity, Agglutination**
 Knierim, F.; and Rubinstein, P., 1970, Vox Sanguinis, v. 18 (3), 280-286
 Chagas disease, rapid hemagglutination slide test for antibodies using tanned human red cells, useful in blood banks and epidemiologic surveys
- Immunity, Agglutination**
 Knierim, F.; Sandoval, J.; and Munoz, E., 1973, Bol. Chileno Parasitol., v. 28 (3-4), 54-57
 Trypanosoma cruzi, indirect hemagglutination test highly sensitive and specific for diagnosis of chronic Chagas disease
- Immunity, Agglutination**
 Kobayashi, A.; Soltys, M. A.; and Woo, P.T.K., 1976, Ann. Trop. Med. and Parasitol., v. 70 (1), 53-58
 Trypanosoma congolense, sheep, diagnosis, comparison of various parasitological techniques (wet mount preparation; hematocrit centrifuge technique; mouse inoculation test) with various serological techniques (immuno-lysis test; indirect fluorescent antibody test; complement fixation test; immunoconglutination test), effect of treatment with quinapyramine dimethosulphate on diagnosis
- Immunity, Agglutination**
 Kosmiderski, S.; Polak, S.; and Burczek, R., 1971, Polski Tygod. Lekar., v. 26 (33), 1271-1272
 human taeniasis, styrene latex antigens used in diagnosis
- Immunity, Agglutination**
 Kruatrachue, M.; and Na-Nakorn, S., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 375-380
 Plasmodium falciparum, human, marked reduction in incidence of cold haemagglutinin
- Immunity, Agglutination**
 Krupp, I. M., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 387-392
 Entamoeba histolytica, antigenic pattern and variation in host response to amebic disease analyzed by immunoelectrophoretic patterns and indirect hemagglutination titers in sera obtained from patients from various parts of the world
- Immunity, Agglutination**
 Kuhn, R. E.; and Vaughn, R. T., 1976, Internat. J. Parasitol., v. 6 (3), 223-225
 Trypanosoma cruzi, use of ⁵¹Cr-labelled culture forms in agglutination titrations
- Immunity, Agglutination**
 Kumar, P. S.; et al., 1977, Indian J. Med. Research, v. 66 (5), 756-764
 Toxoplasma gondii, preparation of Toxoplasma hemagglutination antigen from parasites grown in tissue culture, comparison of sensitivity and specificity with antigen prepared from peritoneal exudate of infected mice (exper.)
- Immunity, Agglutination**
 Lahav, M.; et al., 1975, J. Protozool., v. 22 (3), 72A [Abstract]
 Entamoeba histolytica, human, detection of antibodies by counterelectrophoresis and passive haemagglutination technique
- Immunity, Agglutination**
 Lawrence, J. A., 1977, Research Vet. Sc., v. 23 (3), 288-292
 Schistosoma mattheei, Friesian steers (exper.), antibody response followed up to 76 weeks by complement fixation, indirect haemagglutination, and indirect immunofluorescent tests, strong cross-reaction to Fasciola gigantica and Paramphistomum microbothrium in CF test, while IH and IF tests were specific; IF test of proven value in diagnosis of clinical schistosomiasis
- Immunity, Agglutination**
 Lemasson, J. M.; and Dindinaud, M. H., 1974, Ouest Med., v. 27 (15), 1425-1430
 human toxoplasmosis, diagnosis comparing direct agglutination and indirect immunofluorescence
- Immunity, Agglutination**
 Lloyd, S.; and Soulsby, E. J. L., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 231-240
 Taenia taeniaeformis, mice, maternal transfer of antibody, placental and transmammary transfer of immunity, passive transfer of immunity by serum or intestinal or colostrum immunoglobulins, indirect haemagglutination and enhanced haemagglutination, immunoglobulin classes involved, antibody on intestinal wall of neonatal mice revealed by indirect fluorescent antibody technique, possible model system for T. saginata in calves

- Immunity, Agglutination**
 Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70
Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)
- Immunity, Agglutination**
 Loehr, K.F., 1972, *J. Protozool.*, v. 19 (4), 658-660
Babesia bigemina, immunity in cattle (exper.), concluded that premunity is followed by sterile immunity which lasts for at least 6 months and thereafter fades gradually with time, also concluded that minimum period of contact between host and parasite is required for acquisition of immunity, capillary tube agglutination test sensitive but unsuitable for detection of carrier animals
- Immunity, Agglutination**
 Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 86-95
Anaplasma marginale, A. centrale, cattle, homologous and heterologous indirect fluorescent antibody and capillary tube agglutination responses to primary infection and reinfection and to cross-infection with the heterologous organisms, clinical reactions; A. centrale carrier animals showed high degree of premunity to severe challenge with A. marginale
- Immunity, Agglutination**
 Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 217-226
 sera of 1505 game animals of 19 different species screened for antibodies to *Anaplasma marginale*, *Babesia bigemina*, and *Theileria parva*, capillary tube agglutination and indirect fluorescent antibody tests, antibodies more prevalent in sera of antelopes grazing in vicinity of non-dipped cattle than in areas where cattle are either dipped regularly or are not present at all, need for studies on transmission of these organisms from game to cattle and vice versa: Kenya; Tanzania; Uganda; Zambia
- Immunity, Agglutination**
 Lunde, M. N.; and Fayer, R., 1977, *J. Parasitol.*, v. 63 (2), 222-225
Sarcocystis, soluble antigen prepared from zoites obtained by pepsin digestion techniques, indirect hemagglutination test and agar gel diffusion test in cattle, possible use in diagnosis, antigen did not cross-react with sera of *Toxoplasma*-positive humans and did not react with sera from *Sarcocystis*-infected dogs
- Immunity, Agglutination**
 McHardy, N.; and Gilson, C., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 11-21
Anaplasma marginale, differences in ultra-structure of agglutinating and complement-fixing antigens, relation to structure of complete organism
- Immunity, Agglutination**
 Machnicka, B., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 213-221
Taenia saginata, humans, *Cysticercus bovis*, calves, antibody response, cross-reactions indicating antigenic relationship between adult and larval form, passive hemagglutination, indirect immunofluorescence, gel precipitation, immunoelectrophoresis
- Immunity, Agglutination**
 Mahajan, R. C.; et al., 1977, *Indian J. Med. Research*, v. 66 (1), 29-32
Toxoplasma gondii in humans, evaluation of indirect fluorescent antibody test and indirect hemagglutination test for detection of *Toxoplasma* antibodies in suspected infections
- Immunity, Agglutination**
 Mahajan, R. C.; and Chitkara, N. L., 1975, *Progr. Drug Research*, v. 19, 75-80
 human echinococcosis, diagnostic trials comparing the Casoni skin test, bentonite flocculation test (BFT), and indirect hemagglutination test (IHA); both BFT and IHA more sensitive and specific than the Casoni test and together serodiagnosis could be achieved with reasonable degree of certainty
- Immunity, Agglutination**
 Mahajan, R. C.; Ganguly, N. K.; and Chitkara, N. L., 1976, *Indian J. Med. Research*, v. 64 (3), 405-409
 comparative evaluation of immunodiagnostic techniques for human echinococcosis (fluorescent antibody test, indirect hemagglutination, intradermal Casoni test)
- Immunity, Agglutination**
 Mannweiler, E.; et al., 1976, *Deutsche Med. Wchnschr.*, v. 101 (52), 1915-1919
 human amoebic hepatic abscesses, comparative seroimmunologic tests for antibody presence in infected persons, controls and persons from endemic areas show multiple tests needed for accurate diagnosis
- Immunity, Agglutination**
 Mannweiler, E.; Thoele, A.; and Lederer, I., 1977, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 238 (4), 494-502
 echinococcosis, human, immunodiagnosis using aqueous extract from *Echinococcus multilocularis* cyst material, and protoscolices from *E. granulosis* and *E. multilocularis*, results showed indirect immunofluorescence test with vital protoscolices the most specific whereas indirect hemagglutination test with hydatid fluid and extract from *E. multilocularis* the most sensitive, latex test the least specific method
- Immunity, Agglutination**
 Manuel, M. F.; Mendoza, C. B.; and Navarro, J. A., 1975, *Philippine J. Vet. Med.*, v. 13 (1-2), 1974, 187-199
Toxoplasma gondii, pigs, incidence, serological survey, indirect hemagglutination test: Philippines

- Immunity, Agglutination
Mathews, H. M.; and Dilworth, D. A., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 351-352
Plasmodium brasilianum, use as antigen in indirect hemagglutination test for diagnosing human *P. falciparum*, *P. vivax*, *P. ovale*, *P. malariae*
- Immunity, Agglutination
Mathews, H. M.; Fried, J. A.; and Kagan, I. G., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 417-422
evaluation by indirect hemagglutination test of soluble antigens prepared from *Plasmodium falciparum* and *P. vivax*, measurement of detection rate in heterologous and homologous *Plasmodium* spp.
- Immunity, Agglutination
Mathews, H. M.; Lobel, H. O.; and Breman, J. G., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 217-220
Plasmodium falciparum, *P. malariae*, infants and young children, prevalence of malaria antibody evaluated using indirect hemagglutination test with *P. falciparum* antigen and filter paper blood specimens, slight decline in 6- to 8-month-old children with no demonstrable parasitemia but those older than 10 months had similar antibody levels regardless of presence or absence of demonstrated parasites in blood smears: Ivory Coast
- Immunity, Agglutination
Matossian, R. M.; et al., 1976, Internat. J. Parasitol., v. 6 (5), 367-371
Echinococcus granulosus, human, serum immunoglobulin levels, significant increase in IgG, increase in IgM and IgA significant only in pulmonary cases, no significant correlation between haemagglutinating and complement fixing antibody titres and respective IgG and IgM levels, IgD levels not different between patients and controls, elevated IgE in 77%, persistent hyperglobulinemia in post-operative follow-ups
- Immunity, Agglutination
Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, Immunology, v. 31 (1), 1-19
Leishmania enriettii, *L. tropica major*, *L. aethiopica*, *L. mexicana amazonensis*, numerical immunotaxonomy, differentiation according to reactivity and cross-reactivity in tests of parasite agglutination, indirect immunofluorescence, and passive cutaneous anaphylaxis
- Immunity, Agglutination
de la Maza, D.; Biel de la M., F.; and Contreras, M., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 56-61
Echinococcus granulosus, humans, hemagglutination test using formalinized red blood cells recommended as sensitive useful diagnostic and epidemiologic tool
- Immunity, Agglutination
Michael, S. A.; and Saleh, S. M., 1977, Trop. Animal Health and Prod., v. 9 (4), 241-244
Dipetalonema evansi, camels, slide agglutination test for diagnosis, high number of positives from *D. evansi* infections, no positives in camels infected with *Trypanosoma evansi*
- Immunity, Agglutination
Miller, L. H.; Powers, K. G.; and Shiroishi, T., 1977, Exper. Parasitol., v. 41 (1), 105-111
Plasmodium knowlesi in rhesus monkeys, no correlation between functional immunity and results of 2 in vitro tests (schizont-infected cell agglutination test; suppression of merozoite invasion by immune serum)
- Immunity, Agglutination
Mohr, W., 1976, Med. Klin., Berlin, v. 71, 1204-1209
human protozoal infections, value of immunoserologic techniques in diagnosis, comparison with results of direct blood examination and culture methods
- Immunity, Agglutination
Moulton, J. E.; Coleman, J. L.; and Gee, M. K., 1975, Am. J. Vet. Research, v. 36 (4), 357-366
Trypanosoma equiperdum, pathogenesis in rabbits, lesions in skin, spleen, lymph nodes, and kidney, amyloid deposition, serum and tissue IgM and IgG, fluorescent antibody studies, agglutination test, depressed antibody response to ovine erythrocytes
- Immunity, Agglutination
Mugera, G. M.; Bitakaramire, P. K.; and Munyua, W. K., 1973, Isotopes and Radiation Parasitol. III, 129-137
cattle, immunization against East Coast fever using *Theileria parva*-infected *Rhipicephalus appendiculatus* irradiated at graded doses, comparison of immunity produced by attachment of ticks vs. inoculation of tick tissue, circulating antibodies demonstrated by capillary agglutination test
- Immunity, Agglutination
Murosaku, A., 1976, Nippon Zyuisei-Kai Zassi (J. Japan Vet. Med. Ass.), v. 29 (5), 263-267
Toxoplasma antibody survey, cats, indirect hemagglutination test, medication with 2-sulfamoyl-4,4'-diaminodiphenylsulfone, no negative reactions changed to positive, no increase in antibody titer in positive cats
- Immunity, Agglutination
Nakabayashi, T.; et al., 1969, Nettai Igaku (Trop. Med.), v. 11 (1), 16-26
detection in pigs suspected to be infected with *Toxoplasma gondii* using hemagglutination test with the mouse inoculation method or fluorescent antibody test
- Immunity, Agglutination
Nemeth, I., 1972, Parasitol. Hungar., v. 5, 99-134
Cysticercus pisiformis in rabbits (exper.), identification of hemagglutinating and precipitating antibodies in both primary and secondary infections, associations with IgM and IgG immunoglobulin classes
- Immunity, Agglutination
Nemeth, I., 1972, Parasitol. Hungar., v. 5, 135-157
Cysticercus pisiformis in rabbits (exper.), isolation of specific antibodies belonging to IgG and IgM classes as shown by agar gel diffusion precipitation and indirect hemagglutination tests

Immunity, Agglutination

Neppert, J.; and Warns, C.-M., 1974, Tropenmed. u. Parasitol., v. 25 (4), 492-497
sera from Liberians with various helminthic infections, cross reactions with antigens from *Ascaris*, hookworm, *Onchocerca*, *Dirofilaria immitis*, closed hexagon immunodiffusion, complement fixation reaction, indirect haemagglutination

Immunity, Agglutination

Niel, G.; et al., 1974, Medecine et Malad. Infect., v. 4 (5), 231-235
Entamoeba histolytica, immunoelectrodifusion in diagnosis of human infection, comparison with immunoelectrophoresis, immunofluorescence and latex agglutination test

Immunity, Agglutination

Norman, L.; and Kagan, I. G., 1975, Bol. Chileno Parasitol., v. 30 (3-4), 58-64
Trichinella spiralis, rabbit and human serum, evaluation of crude and fractionated antigens and comparison of effectiveness of serologic tests for diagnosis

Immunity, Agglutination

Oelerich, S., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (3), 296-304
Leishmania spp., *Trypanosoma cruzi*, *Crithidia* sp., *Mycobacterium smegmatis*, antigenic analyses and cross reactions, double gel-diffusion, complement-fixation, indirect hemagglutination

Immunity, Agglutination

Oelerich, S.; et al., 1975, Tropenmed. und Parasitol., v. 26 (4), 431-434
diagnosis of human schistosomiasis, serum and blood samples dried on filter paper discs and normal sera collected from infected and control persons, reactions to indirect hemagglutination test higher using cercarial antigens than if using adult *Schistosoma mansoni*, and serum antibody response in dried blood specimens remained sensitive only if stored at low temperatures

Immunity, Agglutination

Oelerich, S.; and Nwokolo, C., 1974, Tropenmed. u. Parasitol., v. 25 (2), 137-146
Paragonimus uterobilateralis, sera from 27 patients, complement fixation, indirect hemagglutination, double gel diffusion, reactions with homologous antigen and cross-reactions with other helminth antigens, disc-electrophoretic analysis of *P. uterobilateralis* antigen: Nigeria

Immunity, Agglutination

Oelerich, S.; Umaly, R. C.; and Lederer, I., 1974, Tropenmed. u. Parasitol., v. 25 (3), 318-326
Schistosoma mansoni, different developmental stages, *S. japonicum*, *Fasciola hepatica*, *Ascaris suum*, cross reactions in double gel diffusion, Cerkarienhüllenreaktion, complement fixation, indirect immunofluorescence, indirect haemagglutination, mice, rabbits

Immunity, Agglutination

Oelerich, S.; and Volkmer, K. J., 1976, Tropenmed. u. Parasitol., v. 27 (1), 44-49
Paragonimus uterobilateralis, *Paragonimus africanus*, use of passive hemagglutination test in diagnosis, evaluation of treatment measures, and in seroepidemiologic surveys, demonstration of common antigens, comparative studies of immunoglobulin levels and complement fixation not useful

Immunity, Agglutination

Ostmann, H.; Oelerich, S.; and Lederer, I., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 72-80
Trypanosoma cruzi, antigenic analysis, titers obtained with complement-fixation and indirect hemagglutination tests using hyperimmune sera from rabbits and guinea pigs; antibodies in mice demonstrable earlier and longer by complement fixation than by indirect hemagglutination and double-gel diffusion; for 33 Chagas' disease patients indirect hemagglutination was slightly more sensitive than complement-fixation, serum IgM levels not raised

Immunity, Agglutination

Ottesen, E. A.; Smith, T. K.; and Kirkpatrick, C. H., 1975, Internat. Arch. Allergy and Applied Immunol., v. 49 (3), 396-410
Trichinella spiralis, mice, chronic infection, cellular immune responsiveness, sequential development of antigen-reactive cells in various lymphoid cell populations, antibody responses (haemagglutination titers, homocytotropic antibody)

Immunity, Agglutination

Papua N. Guinea Med. J., v. 17 (1), 1974, 1-115
multiple articles focusing on human malaria in Papua New Guinea (epidemiology, public health, control programs, vectors, diagnosis, toxicity of antimalarials, statistics of surveys)

Immunity, Agglutination

Paris, J.; Wilson, A. J.; and Gray, A. R., 1976, Ann. Trop. Med. and Parasitol., v. 70 (1), 45-51
Trypanosoma brucei, 11 stabilates (prepared from isolates collected from cattle and tsetse flies in three areas of East Africa), serologic comparison of predominant variant antigens by direct agglutination tests, more sensitive in detection of antigenic relationships than comparisons founded on basic strain antigens

Immunity, Agglutination

Peloux, Y., 1974, Med. Lab., v. 27 (7), 169-175
toxoplasmosis, human, diagnosis by direct agglutination

Immunity, Agglutination

Phillips, T. M.; and Draper, C. C., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 7 [Demonstration]
Schistosoma mansoni, attempts to perfect serologic tests for epidemiologic study and assessment of control projects, use of purified egg antigen for indirect hemagglutination test

- Immunity, Agglutination**
Pinilla, N.; et al., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 68-70
human echinococcosis, seroepidemiologic prevalence survey using latex agglutination test with confirmation of results by immunoelectrophoresis: Cabrero, Departamento de Yumbel, Concepcion, Chile
- Immunity, Agglutination**
Pinon, J. M.; and Gentilini, M., 1973, Nouv. Presse Med., v. 2 (19), 1283-1287
human filariasis, application of cellular immunologic tests (rosette formation, macrophage migration) in diagnosis and comparison with serologic tests (fluorescent antibody, passive hemagglutination, gel diffusion)
- Immunity, Agglutination**
Poulain, J.; et al., 1977, Ann. Immunol., v. 128C (1-2), 245-247
Nippostrongylus brasiliensis, rats, synthesis of hemagglutinating antibodies in intestinal secretions, detected before serum antibodies, possible role of local antibodies in mechanism of worm expulsion
- Immunity, Agglutination**
Poulain, J.; Luffau, G.; and Pery, P., 1975, Compt. Rend. Acad. Sc., Paris, v. 281, s. D, Sc. Nat. (23), 1933-1934
Nippostrongylus brasiliensis infected rats, formation of hemagglutinating antibodies in serum and intestinal secretions; local antibodies, new immune mechanism
- Immunity, Agglutination**
Poulain, J.; Luffau, G.; and Pery, P., 1976, Ann. Immunol., v. 127C (2), 215-224
Nippostrongylus brasiliensis, rats, kinetics of haemagglutinin production in serum vs. intestinal secretions, antibody response to low doses of infecting larvae, nature of immunoglobulin classes involved
- Immunity, Agglutination**
Pozzuoli, R.; et al., 1975, J. Immunol., v. 115 (5), 1459-1463
Echinococcus granulosus, isolation of the most immunoreactive antigens from sheep hydatid fluid, evaluation in immunoelectrophoresis, counter immunoelectrophoresis, and passive haemagglutination, latter must be considered test of choice in serologic diagnosis
- Immunity, Agglutination**
Preston, J. M.; and Duffus, W.P.H., 1975, J. Helminth., v. 49 (1), 9-17
Schistosoma bovis, cattle, diagnosis, development and standardization of indirect haemagglutination test, lack of cross-reactions with cattle infected with other helminths
- Immunity, Agglutination**
Quilici, M.; Assadourian, Y.; and Ranque, P., 1971, Medecine Trop., v. 31 (2), 207-213
immunological diagnosis and post-treatment evaluation of human echinococcosis, comparison of sero-immunological tests
- Immunity, Agglutination**
Rao, B. V.; and Mittal, K. R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 476-480
hydatidosis in Bubalus bubalis, failure to detect antibodies with indirect hemagglutination, scolexo-precipitation, or gel diffusion tests
- Immunity, Agglutination**
Rao, B. V.; and Mittal, K. R., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 481-486
buffalo hydatid cyst fluid, antigenicity studied in rabbits, lambs, buffalo, and zebu calves with indirect hemagglutination, scolexo-precipitation, and gel diffusion tests, compared with other antigen preparations
- Immunity, Agglutination**
Rao, V. G.; and Padma, M. C., 1975, Indian J. Exper. Biol., v. 13 (2), 168-171
Entamoeba histolytica, rats on low protein, low vitamin diet, increased susceptibility, poor immune response as shown by haemagglutination test
- Immunity, Agglutination**
Ravi, V. V.; et al., 1975, Indian J. Med. Research, v. 63 (12), 1732-1736
titers of indirect hemagglutination test and complement levels compared using sera and abscess pus from patients infected with hepatic amoebic abscesses, sero-negative and sero-positive cases investigated for possible differences in immune responses
- Immunity, Agglutination**
Rifaat, M. A.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 118-120
Toxoplasma gondii, immunoserological survey for toxoplasmosis conducted by randomly sampling the populations of governorates in Egypt
- Immunity, Agglutination**
Ristic, M.; and Nyindo, M. B. A., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 66-70
Anaplasma marginale, cows inoculated with attenuated vaccine, humoral (complement fixing and agglutinating antibodies) and cell-mediated (macrophage migration inhibition test) immune responses, results demonstrate correlation between cell-mediated immunity and protection
- Immunity, Agglutination**
Rushton, B., 1976, Research Vet. Sc., v. 21 (2), 242-243
Fasciola hepatica, sheep, increase of complement fixation (CF) and passive haemagglutinating (PH) auto-antibody titres after primary and challenge infections, apparent organ and species specific PH antigen in sheep liver mitochondria, CF auto-antibodies neither organ nor species specific
- Immunity, Agglutination**
Sagua, H.; et al., 1972, Bol. Chileno Parasitol., v. 27 (1-2), 58-60
eosinophilia, intradermal, ring precipitation and bentonite flocculation tests, comparison of results in persons at time of Trichinella spiralis infection and 8 1/2 years after infection

Immunity, Agglutination

Sakurai, Y.; et al., 1976, Nippon Zyuisi-Kai Zassi (J. Japan Vet. Med. Ass.), v. 29 (6), 316-319

Toxoplasma gondii, survey on hemagglutination antibody in cats, breed or sex not significant in rate of positive reaction; high positive rate in cats from vicinity of piggery or slaughterhouse: Tohoku district

Immunity, Agglutination

de Savigny, D. H.; and Tizard, I. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 501-507

Toxocara larva migrans, larval excretions and secretions from in vitro cultures used as antigen in passive hemagglutination and fluorescent antibody tests to diagnose visceral larva migrans in man and laboratory animals (exper.), preliminary evaluation for serodiagnostic purposes, no cross reactions with *Ascaris suum* infections

Immunity, Agglutination

Sawada, T.; Takei, K.; and Chun, S.-K., 1976, Japan. J. Exper. Med., v. 46 (6), 337-342

Clonorchis sinensis, purification of antigens for hemagglutination test

Immunity, Agglutination

Schenone, H.; et al., 1969, Bol. Chileno Parasitol., v. 24 (3-4), 118-121

Trichinella spiralis, human, skin test and bentonite flocculation test, surveys show progressive decline in infection: Santiago, Chile

Immunity, Agglutination

Schenone, H.; et al., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 62-67

echinococcosis, comparison of sensitivity and specificity of the hemagglutination and Casoni skin tests in trials using known infected persons and controls, both tests reasonably useful

Immunity, Agglutination

Schinski, V. D.; Clutter, W. C.; and Murrell, K. D., 1976, Am. J. Trop. Med. and Hyg., v. 25 (6), 824-831

Schistosoma mansoni, S. haematobium, human, immunodiagnosis, enzyme-linked immunosorbent assay and radioimmunoassay compared with indirect hemagglutination and indirect fluorescent antibody techniques

Immunity, Agglutination

Schottelius, J., 1977, Tropenmed. u. Parasitol., v. 28 (2), 202-204

latex Chagas test performed on sera of *Bartonella bacilliformis*-infected humans, *Haemobartonella muris*-infected rats, and *Eperythrozoon coccoides*-infected mice, positive reaction observed only with rat sera, nature of this cross-reaction has not been clarified

Immunity, Agglutination

Seamon, P. J.; et al., 1977, Vet. Rec., v. 101 (16), 324-325

Toxoplasma cysts, mice (exper.), latex agglutination test as a rapid diagnostic method, application to diagnosis of ovine abortion

Immunity, Agglutination

Senet, J. M.; and Robert, R., 1974, Medecine et Malad. Infect., v. 4 (1), 21-22

Toxoplasma gondii, use of direct and indirect hemagglutination and immunofluorescence in seroimmunologic diagnosis, comparison with Sabin-Feldman dye test

Immunity, Agglutination

Senet, J. M.; Robert, R.; and Mauras, G., 1976, Biomedicine, v. 25 (5), 191-194

preparation ultrasonically and comparison of soluble endogenous, insoluble particular, and total mixed antigens used in indirect hemagglutination test to diagnose toxoplasmosis

Immunity, Agglutination

Senet, J. M.; Robert, R.; and Mauras, G., 1976, Biomedicine, v. 25 (6), 212-214

diagnosis of toxoplasmosis using indirect agglutination for early detection of antibodies, comparison with indirect immunofluorescence

Immunity, Agglutination

Sheahan, B. J., 1975, J. Comp. Path., v. 85 (1), 87-95

Sarcoptes scabiei, pigs, natural vs. experimental infections, histological and histochemical alterations in ear lesions, raised serum protein levels not accompanied by increases in passive haemagglutination titres

Immunity, Agglutination

Shukla, D. C.; and Victor, D. A., 1976, Indian Vet. J., v. 53 (11), 852-854

sarcosporidiosis, bovines, diagnosis, complement fixation effective, agglutination and gel diffusion were of no value

Immunity, Agglutination

Sinski, E.; and Holmes, P. H., 1977, Exper. Parasitol., v. 43 (2), 382-389

Nippostrongylus brasiliensis, rats, systemic and local antibody response, specific anti-parasite binding capacity of IgA and IgG in intestinal mucosa and serum measured by radioimmunoassay, results compared with total levels of IgA and IgG and hemagglutinating and precipitating antibody titers, indirect evidence that local IgA may be part of effector mechanism

Immunity, Agglutination

Smith, H. V.; and Herbert, I. V., 1976, Immunology, v. 30 (2), 213-219

Hyostrogylus rubidus, passive transfer of humoral immunity from infected sows to their offspring via colostrum, demonstration that agglutinating antibodies mainly of the IgG class were associated with protection

Immunity, Agglutination

Smith, H. V.; and Herbert, I. V., 1976, Vet. Parasitol., v. 1 (4), 327-335

Hyostrogylus rubidus, pigs, primary infection, antibody response, time course and kinetics as shown by passive haemagglutination test

Immunity, Agglutination

Smith, H. V.; Herbert, I. V.; and Davis, A. J., 1976, *Vet. Parasitol.*, v. 1 (4), 337-344
Hyostromylus rubidus, pigs, multiple infections and reinfections, antibody response, passive haemagglutination test

Immunity, Agglutination

Soltys, M. A.; and Woo, P. T. K., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 143-145
Trypanosoma gambiense, human, diagnosis, indirect charcoal-agglutination test, promising results

Immunity, Agglutination

Souza, M. do C.; et al., 1974, *J. Protozool.*, v. 21 (4), 579-584
 living culture forms of *Leptomonas pessoai* cross-protected mice against *Trypanosoma cruzi* challenge infection, circulating antibodies detected in immunized mice by immunodiffusion, passive haemagglutination, complement fixation, and antibody binding assay which cross-reacted with *T. cruzi* extracts, cellular immune response indicated by leucocyte migration inhibition

Immunity, Agglutination

Spencer, H. C., jr.; et al., 1976, *Am. J. Epidemiol.*, v. 104 (1), 93-99
Entamoeba histolytica, human, endemic area, parasitologic, serologic, and epidemiologic studies, association of infection with crowding and poor sanitation, probable unimportance of water as mode of transmission in this setting, and usefulness of indirect hemagglutination test as an epidemiologic tool: Arkansas

Immunity, Agglutination

Stamm, W. P.; Ashley, M. J.; and Bell, K., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 49-53
 low endemicity area of human amoebiasis, assessment of indirect haemagglutination, latex agglutination, indirect fluorescent antibody test and gel diffusion precipitin test for diagnostic serology

Immunity, Agglutination

Stamm, W. P.; Ashley, M. J.; and Parelkar, S. N., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 211-213
 amoebiasis, human, diagnosis, commercially available latex agglutination test marketed in kit form as Serameba, compared with gel diffusion precipitin, fluorescent antibody, and indirect haemagglutination tests

Immunity, Agglutination

Stevens, A. R.; et al., 1977, *J. Protozool.*, v. 24 (2), 316-324
Acanthamoeba castellanii, *A. culbertsoni*, isolation and purity of plasma membrane antigens (electron microscopy, assays of marker enzymes), antisera raised against these antigens tested against homologous and heterologous *Acanthamoeba* spp. in agglutination and immunofluorescence tests, results strongly indicate value of plasma membrane antisera for immunotaxonomy and immunodiagnosis of *Acanthamoeba*

Immunity, Agglutination

de Storni, P. D.; de Bolsi, F. L.; and Yanovsky, J. F., 1975, *Medicina*, Buenos Aires, v. 35 (1), 67-72
 direct agglutination test in diagnosis of human *Trypanosoma cruzi*, evaluation of systematic use of 2-mercaptoethanol to eliminate nonspecific agglutinins

Immunity, Agglutination

Stromberg, B. E.; and Soulsby, E. J. L., 1976, *Vet. Parasitol.*, v. 2 (2), 197-208
Ascaris suum, guinea pigs, capacity of various worm developmental stages to induce protective immune response using various routes of inoculation, antibody titer as assessed by indirect hemagglutination was not correlated with degree of protection

Immunity, Agglutination

Surjan, L.; and Stverteczky, Z., 1971, *Parasitol. Hungar.*, v. 4, 11-22
 human echinococcosis, indirect hemagglutination test more specific and more sensitive in comparison tests with complement fixation, human cyst fluid recommended for use in testing human serum rather than swine cyst fluid

Immunity, Agglutination

Suzuki, N.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 35-40
Toxoplasma gondii, mice and rats (exper.), blood changes; rats (exper.), antibody titers by dye test and indirect immunofluorescence, erythrocytes showed positive Coombs' reaction suggesting presence of auto-immune acquired hemolytic process

Immunity, Agglutination

Szarfman, A.; et al., 1975, *Medicina*, Buenos Aires, v. 35 (3), 245-250
 specific agglutinins and immunoglobulin levels in congenital Chagas infections

Immunity, Agglutination

Szarfman, A.; et al., 1977, *J. Parasitol.*, v. 63 (1), 149
Trypanosoma cruzi, patients with acute Chagas disease, EVI antibodies, specific agglutinins, and IFA antibodies

Immunity, Agglutination

Tailliez, R.; Biguet, J.; and Doby, J.-M., 1976, *Rev. Med. Vet.*, Toulouse, v. 127 (4), 653-656, 659-662, 665-668
 bovine cysticercosis diagnosis assays, passive micro-hemagglutination test using *Taenia saginata*, *Cysticercus bovis*, *Fasciola hepatica* and *Moniezia expansa* extracts and various coupling agents plus serum from infected cattle, poor results, false positives

Immunity, Agglutination

Takahashi, J.; and Sato, K., 1976, *Japan. J. Exper. Med.*, v. 46 (1), 7-13
 fractionation and purification of *Dirofilaria immitis* antigens by column chromatography and disc electrophoresis, evaluation for use in diagnosis of human *Wuchereria bancrofti* by hemagglutination test

Immunity, Agglutination

- Takayanagi, T.; Kambara, H.; and Enriquez, G. L., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (1), 27-31
Trypanosoma gambiense, O type maintained in rats, isolation and purification of agglutination antigen

Immunity, Agglutination

- Takayanagi, T.; and Nakatake, Y., 1976, Exper. Parasitol., v. 39 (2), 234-243
Trypanosoma gambiense, mice, immunologic responses to infection in thymectomized lethally-irradiated recipients of passively transferred thymic cells sensitized with parasitic antigens in vivo, enhanced agglutinin production and protection and phagocytosis

Immunity, Agglutination

- Takayanagi, T.; Nakatake, Y.; and Kato, H., 1977, Exper. Parasitol., v. 43 (1), 196-202
Trypanosoma gambiense, agglutination and binding of trypanomastigotes to macrophages in terms of different antigen-antibody ratios

Immunity, Agglutination

- Thomaidis, T.; et al., 1977, Arch. Dis. Childhood, v. 52 (5), 403-407
Toxoplasma gondii, survey of relationship between toxoplasmosis and chronic lymphadenopathy in children, need for inclusion in differential diagnosis of lymphoglandular enlargement: Greece

Immunity, Agglutination

- Timoney, J. F., 1976, Irish Vet. J., v. 30 (3), 41-42
Toxoplasma gondii, healthy dogs in animal shelter, incidence as shown by positive indirect hemagglutination test: Dublin

Immunity, Agglutination

- Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1977, Research Vet. Sc., v. 23 (1), 51-54
Babesia bigemina, antigenic variation in 4 stabilates propagated as acute and chronic blood-borne and tick-borne infections of Colombian cattle, characterization by means of complement fixation, gel diffusion, agar gel electrophoresis, and indirect haemagglutination tests

Immunity, Agglutination

- Todorov, T.; et al., 1976, Bull. World Health Organ., v. 53 (4), 407-415
human echinococcosis, persistence of antibodies after surgical treatment, use in evaluation of surgical results and prognosis

Immunity, Agglutination

- Todorovic, R. A.; Long, R. F.; and McCallon, B. R., 1977, Vet. Microbiol., v. 2 (2), 167-177
Anaplasma marginale, calves, complement fixation and rapid card agglutination tests compared, results indicated that under field conditions rapid card agglutination test was a simpler and more reliable diagnostic test: north coast of Colombia

Immunity, Agglutination

- Toritsu, M.; et al., 1975, Clin. Immunol. and Immunopathol., v. 4 (4), 467-477
Ascaris lumbricoides, patients with worm migration into biliary tree, skin tests, complement fixation, hemagglutination tests, immunoglobulin levels, pre- and post-surgical results, significant preoperative rise in IgE appears to be dependent on Ascaris infection, purified Ascaris antigen has high chemotactic effect on eosinophils

Immunity, Agglutination

- Tribouley, J.; et al., 1976, Bull. World Health Organ., v. 54 (6), 695-702
Schistosoma mansoni in humans, passive hemagglutination test of high specificity and sensitivity in comparison trials with complement fixation test, useful in epidemiologic surveys

Immunity, Agglutination

- Tribouley, J.; Tribouley-Duret, J.; and Tlem-sani, A., 1974, Medecine et Malad. Infect., v. 4 (1), 43-50
passive hemagglutination test technique for diagnosis of human echinococcosis, suitable for epidemiologic tool, favorable comparison with complement fixation test

Immunity, Agglutination

- Tribouley-Duret, J.; et al., 1976, Compt. Rend. Soc. Biol., Paris, v. 170 (2), 349-352
Toxocara canis, mice, rabbits, detection of antibodies using antigen prepared from adult worm rather than larva, precipitation, complement fixation, hemagglutination, results show such antigen should be suitable for diagnosis of visceral larva migrans

Immunity, Agglutination

- Tribouley-Duret, J.; Tribouley, J.; and Pautrizel, R., 1977, Pharmacie Biol. (109), v. 11, 293-297
value of indirect hemagglutination test in diagnosing both protozoan and helminthic human infections

Immunity, Agglutination

- Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 413-421
various schistosome antigens tested against sera from parasitologically proven human cases of Schistosoma mansoni and S. haematobium, Cercarienhullenreaktion, indirect fluorescent antibody test, complement fixation test, indirect haemagglutination test

Immunity, Agglutination

- Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 422-432
Schistosoma haematobium, human, with and without other helminthic infections, serodiagnosis, various schistosome antigens plus Ascaris suum and Fasciola hepatica tested in Cercarienhullenreaktion, indirect immunofluorescence, indirect haemagglutination, complement fixation, and double gel diffusion tests, evaluation of sensitivity and specificity, attempt to correlate results of serologic tests with some clinical symptoms and with influence of chemotherapy

- Immunity, Agglutination
Undeen, A. H.; and Alger, N. E., 1977, *Science Biol. J.*, v. 3 (1), 259-262
Nosema algerae in white mice (exper.), antibody detected by indirect fluorescent antibody test and by slide spore agglutination test, possible usefulness in safety evaluation phase of prospective microsporidia biological control agents to determine mammalian exposure
- Immunity, Agglutination
Van Tiggele, L. J.; and Over, H. J., 1976, *Vet. Parasitol.*, v. 1 (3), 239-248
Fasciola hepatica, sheep (nat. and exper.), cattle (exper.), serological diagnosis, comparison of indirect haemagglutination, counter-immunoelectrophoresis, and double immunodiffusion
- Immunity, Agglutination
Varela-Diaz, V. M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 617-622
latex agglutination test is technique of choice for field surveys and seroepidemiologic studies of human Echinococcus granulosus, comparative evaluation of indirect agglutination test, immunoelectrophoresis and Casoni skin test
- Immunity, Agglutination
Varma, T. K.; Kulshreshtha, S. B.; and Rao, B. V., 1974, *Riv. Parassitol.*, Roma, v. 35 (2), 103-111
Cysticercus tenuicollis, sheep, goats, diagnosis, indirect haemagglutination test, whole cyst antigen gave better results than scolex or cyst fluid antigen; also used to detect serum antibody titres in lambs exper. infected with normal or irradiated oncospheres of Taenia hydatigena
- Immunity, Agglutination
Vaughn, H. W.; Renshaw, H. W.; and Frank, F. W., 1976, *Am. J. Vet. Research*, v. 37 (5), 615-617
Anaplasma marginale, detection in elk, serum card test and complement-fixation test gave incomplete and false-positive reactions, plasma card test gave no reactions, results indicate bovine serologic tests for anaplasmosis may be inadequate with elk serum: Clearwater National Forest, Idaho
- Immunity, Agglutination
Verma, B. B.; and Gautam, O. P., 1977, *Indian Vet. J.*, v. 54 (10), 809-813
Trypanosoma evansi, buffaloes, calves (both exper.), diagnosis, comparison of passive haemagglutination, gel diffusion and indirect fluorescent antibody tests
- Immunity, Agglutination
Vilches, A. M.; et al., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 279-284
Trypanosoma cruzi, mice, effect of heterologous anti-thymocyte serum upon course of infection, shorter survival time and higher parasitemia, no change in agglutination antibody titers, impaired resistance probably in detrimental effect of ATS upon cell-mediated immunity
- Immunity, Agglutination
Vinayak, V. K.; et al., 1976, *Indian J. Med. Research*, v. 64 (5), 661-667
value of immunoelectrophoresis in immunodiagnosis of human hepatic and intestinal Entamoeba histolytica, comparison with indirect agglutination and gel diffusion methods
- Immunity, Agglutination
Weiss, N.; and Degremont, A., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 377-384
filariasis in persons returning from endemic areas, comparison immunoserologic diagnostic tests (immunoelectrophoresis, indirect fluorescent antibody, indirect hemagglutination, two-dimensional gel diffusion tests) showed that highest sensitivity obtained with immunoelectrophoresis, combined tests gave best results
- Immunity, Agglutination
Wilkins, H. A.; and Capron, A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 186-195
Schistosoma haematobium in Gambian community, relation of antibody levels to age (indirect fluorescent antibody and indirect haemagglutination tests), seasonal changes in antibody level, relation of antibody to subsequent changes in egg output, results suggest that serologic parameters may have some relationship to protective immunity and immune response should be considered as factor in epidemiologic studies
- Immunity, Agglutination
Williams, J. F.; and Oriol, R., 1976, *J. Parasitol.*, v. 62 (4), 563-568
Echinococcus granulosus, comparative susceptibility of Meriones unguiculatus (most) vs. albino mice (less) vs. golden hamsters (refractory) to infection with protoscolices, indirect haemagglutination titres in M. unguiculatus, failure of M. unguiculatus to develop immediate hypersensitivity responses represents marked deviation from pattern of immune response in echinococcosis in man and domestic animals and must be considered in use of jirds as model host
- Immunity, Agglutination
Williams, J. F.; Perez Esandi, M. V.; and Oriol, R., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 575-579
evaluation of purified lipoprotein antigens of Echinococcus granulosus in the immunodiagnosis of human infection using hemagglutination, immunoelectrophoresis and skin tests
- Immunity, Agglutination
Yoshimura, K.; et al., 1976, *Japan. J. Vet. Sc.*, v. 38 (6), 579-593
Angiostrongylus cantonensis, guinea pigs, rats, evolution of cellular (macrophage migration inhibitory factor; delayed-type skin reactivity) and humoral (hemagglutinating and precipitating antibodies) immune responses
- Immunity, Agglutination
Yoshimura, K.; and Soulsby, E. J. L., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 99-107
Angiostrongylus cantonensis, rats, lymphoid cell responsiveness, antibody production (reaginic and haemagglutinating)

Immunity, Agglutination

Yoshimura, K.; and Yamagishi, T., 1976, Japan. J. Vet. Sc., Tokyo, v. 38 (1), 33-40

Angiostrongylus cantonensis, rabbits and rats, productions of reaginic and indirect hemagglutinating antibodies, reinfections, course of infection

Immunity, Agglutination

Zahalsky, A. C.; and Weinberg, R. L., 1976, J. Parasitol., v. 62 (1), 15-19

Trypanosoma brucei, inbred rats, humoral response to monomorphic strain during infection, during Berenil cure, after cure, and after rechallenge following drug-induced immunity; contribution of Berenil prophylaxis during refractory period, presence or absence of trypanosome-agglutinating antibodies, class of protective antibodies formed

Immunity, Agglutination

Zawadzka-Jedrzejewska, B.; Gancarz, Z.; and Plonka, W., 1971, Med. Dosw. i Mikrobiol., v. 23 (3), 271-279

Fasciola hepatica, beef cattle, comparative evaluation of passive agglutination, complement fixation and ring precipitation test for diagnosis

Immunity, Agglutination

Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446

Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunity, Allergy. [See also Immunity, Skin tests]

Immunity, Allergy

Aalberse, R. C.; Brummelhuis, H. G. J.; and Reerink-Brongers, E. E., 1973, Immunochemistry, v. 10 (5), 295-303

plasma from patients with Schistosoma mansoni and tropical eosinophilia probably due to a microfilaria infection, purification of polyclonal IgE by immunosorption

Immunity, Allergy

Al-Baldawi, F. A. K.; et al., 1976, Parasitology, v. 73 (2), xviii [Abstract]

Litomosoides carinii in protein-deficient cotton rats, immune response assessed by measuring IgG, IgM, and anaphylactic antibody level

Immunity, Allergy

Alger, N. E.; and Harant, J., 1976, Exper. Parasitol., v. 40 (2), 269-272

Plasmodium berghei, mice immunized by repeated ip injections of normal mosquito salivary glands or heads were protected from ip sporozoite challenge but not from iv sporozoite challenge, suggested that hypersensitive Type 1 reaction may explain part of this protection

Immunity, Allergy

Alger, N. E.; and Harant, J., 1976, Exper. Parasitol., v. 40 (2), 273-280

Plasmodium berghei, mice, concluded that hypersensitivity may possibly be at least partly responsible for protection by injections of 70 mosquito salivary glands but that sporozoite immunity is not primarily due to hypersensitivity

Immunity, Allergy

Allen, J. R.; Doube, B. M.; and Kemp, D. H., 1977, Canad. J. Comp. Med., v. 41 (1), 26-35

Ixodes holocyclus, cattle, histology of skin lesions, attachment of female ticks, primary, secondary and subsequent infestations

Immunity, Allergy

Ambler, J.; Miller, J. N.; and Orr, T. S. C., 1974, Internat. Arch. Allergy and Applied Immunol., v. 46 (3), 427-437

Ascaris suum allergen A, characterization

Immunity, Allergy

Ambler, J.; Miller, J. N.; and Orr, T. S. C., 1974, Internat. Arch. Allergy and Applied Immunol., v. 47 (3), 351-361

Ascaris suum, allergen A, spectroscopic and fluorescence properties

Immunity, Allergy

Ambler, J.; and Orr, T. S. C., 1972, Immunochimistry, v. 9 (3), 263-272

Nippostrongylus brasiliensis adults, extraction and characterization of allergenic component which bears striking resemblance in many general physicochemical properties to purified allergens of clinical importance which have been extracted from other animal and plant sources

Immunity, Allergy

Askenase, P. W., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 96-103

immune inflammatory responses to parasites, interconnections between immediate and delayed hypersensitivities, role of basophils, mast cells, and vasoactive amines (Trichostrongylus colubriformis; ticks; Schistosoma mansoni), workshop report

Immunity, Allergy

Baker, K. P., 1977, Irish Vet. J., v. 31 (10), 141-147

fleas, human hypersensitivity, dermatitis, clinical signs, epidemiology, diagnosis, histopathology, treatment, control, review

Immunity, Allergy

Barnett, J. B.; and Justus, D. E., 1975, Infect. and Immun., v. 11 (6), 1342-1351

Trichinella spiralis, mice, no direct relationship between mast cell degranulation, anaphylaxis, and production of homocytotropic antibodies

- Immunity, Allergy
Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 601-614
Metastrongylus spp., pigs, immediate hypersensitivity, production and partial characterization of homocytotropic antibody, passive transfer of skin sensitivity to uninfected recipients, homocytotropic activity closely associated with but does not parallel distribution of IgA and may be mediated by another immunoglobulin
- Immunity, Allergy
Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 615-623
Metastrongylus spp., pigs, immediate hypersensitivity, partial characterization of allergens, suggested that cross reactions so commonly found when using nematode antigens in wheal and erythema reactions can be eliminated by suitable dilution of the allergen
- Immunity, Allergy
Beesley, W. N., 1971, *Ann. Trop. Med. and Parasitol.*, v. 65 (4), 567-572
Hypoderma lineatum, H. bovis, guinea-pigs, rabbits, calves, anaphylactoid shock following implantation with first instar larvae or injection either with mid-gut fluid from first instar larvae or with hemolymph from third instar larvae
- Immunity, Allergy
Bemrick, W. J.; O'Leary, T. P.; and Averbeck, G. A., 1977, *Immunology*, v. 32 (4), 567-572
Parascaris equorum, guinea pigs, homocytotropic anaphylactic response to antigen extracts from formalized and unformalized worms
- Immunity, Allergy
Benjamin, D. B.; and Soulsby, E. J. L., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 266-272
Brugia pahangi in Mastomys natalensis, homocytotropic and hemagglutinating antibody responses detected using Dirofilaria immitis as antigen
- Immunity, Allergy
Biroum-Noerjasin, 1973, *Clin. and Exper. Immunol.*, v. 13 (4), 545-551
hookworm, human, IgE levels in relation to anti-helminthic treatment, to numbers of eggs/g of stool, to states of infestation (with and without reinfestation, with and without superinfestation), and to time post-treatment, changes in differential lymphocyte and eosinophil counts: East Java, Indonesia
- Immunity, Allergy
Boese, J. L., 1974, *J. Med. Entom.*, v. 11 (5), 503-512
Haemaphysalis leporispalustris, rabbits (exper.), progressive development of host resistance with repeated nymphal infestations depends on frequency rather than intensity of infestations, homocytotropic antibody found in sera of immune rabbits
- Immunity, Allergy
Boucher, R. C.; et al., 1977, *J. Allergy and Clin. Immunol.*, v. 60 (2), 134-140
Ascaris suum-sensitive Macaca mulatta, airway mucosal permeability
- Immunity, Allergy
Bout, D.; et al., 1977, *Ann. Immunol.*, v. 128C (3), 687-698
Schistosoma mansoni, Fasciola hepatica, Echinococcus granulosus, characterization of allergens by radioimmuno-electrophoresis
- Immunity, Allergy
Bradbury, S. M.; Percy, D. H.; and Strejan, G. H., 1974, *Internat. Arch. Allergy and Applied Immunol.*, v. 46 (4), 498-511
Ascaris suum, rats infected with embryonated eggs, characteristic pathological changes in liver and lungs, eosinophilia, production of reaginic antibodies, purified Ascaris antigen (Asc-1) present in all stages of parasite life cycle and directly involved in stimulating reagin production during migratory phase of infection
- Immunity, Allergy
Bulucea, D.; and Rarinca, A., 1972, *Microbiol., Parasitol., Epidemiol.*, Bucuresti, v. 17 (2), 169-174
mixed ascariasis and Trichocephalus infection in woman complicated by pleuro-pulmonary staphylococcal pathology, probable parasitic allergic reactions involved in etiology, case report
- Immunity, Allergy
Carney, I. F., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (3), 322-328
Trichinella spiralis, guinea pigs, IgE-mediated anaphylactic bronchoconstriction, severity reduced by disodium cromoglycate treatment
- Immunity, Allergy
Carson, D.; Metzger, H.; and Bazin, H., 1975, *J. Immunol.*, v. 115 (2), 561-563
Nippostrongylus braziliensis-infected rats, simple radioimmunoassay for measurement of IgE levels by ammonium sulfate precipitation
- Immunity, Allergy
Carson, D.; Metzger, H.; and Bloch, K. J., 1975, *J. Immunol.*, v. 114 (1, Pt.2), 521-523
Nippostrongylus brasiliensis-infected rats, serum IgE levels during potentiated reagin response to egg albumin, results suggest N. brasiliensis functions as an IgE-specific adjuvant in the rat
- Immunity, Allergy
Church, M. K., 1975, *Immunology*, v. 29 (3), 527-534
Nippostrongylus brasiliensis-sensitized, re-sensitized, or passively sensitized rats, interrelationships of anaphylactic bronchoconstriction, active cutaneous anaphylaxis, and circulating reaginic antibody level
- Immunity, Allergy
Cotton, D. J.; et al., 1977, *J. Applied Physiol.: Respiratory, Environmental and Exercise Physiol.*, v. 42 (1), 101-106
Ascaris suum antigen inhalation by dogs, rapid shallow breathing, results indicate that vagal afferent pathways mediate antigen-induced tachypnea and this response does not primarily depend on bronchoconstriction

Immunity, Allergy

Crandall, C. A., 1976, *Exper. Parasitol.*, v. 39 (1), 69-73

Ascaris suum, mice, measurement of homocytotropic antibody response (IgG₁, IgE), infection did not potentiate reaginic response to ovalbumin, not promising model for study of reagin production in helminth infections

Immunity, Allergy

Dessaint, J. P.; et al., 1975, *Immunology*, v. 29 (5), 813-823

Echinococcus granulosus, human hydatid disease, serum IgE levels, quantification of specific IgE antibodies, highly significant correlation between levels of total serum IgE and IgE antibodies

Immunity, Allergy

Dobson, C.; Rockey, J. H.; and Soulsby, E. J. L., 1971, *J. Immunol.*, v. 107 (5), 1431-1439

Ascaris suum, guinea pigs, characterization of IgE antibodies

Immunity, Allergy

Dorchies, P., 1975, *Rev. Med. Vet. Toulouse*, v. 126 (10), 1237-1248

helminthiasis, delayed and immediate hypersensitivity, immunological tolerance, epidemiological and pathological aspects, application to diagnosis and immunization, review

Immunity, Allergy

Enders, B.; Shaker, Z.; and Zwisler, O., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 75-77

Schistosoma mansoni and/or *Schistosoma haematobium*, humans, serum IgE levels

Immunity, Allergy

Ershov, V. S.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973)*, 343-348

anaphylactic shock in guinea pigs after sensitization with free-living or plant-parasitic nematodes and challenge with various helminth antigens indicates antigenic components in common; intradermal tests using antigen from free-living nematode in cases of ascariasis, trichinellosis, and cysticercosis; possible use of free-living nematode to immunize against dictyocaulosis and ascariasis

Immunity, Allergy

Fairchild, S. S.; and Malley, A., 1975, *J. Immunol.*, v. 115 (2), 446-449

induction of mouse homocytotropic antibodies to timothy pollen antigen coupled to purified fraction of *Ascaris suum*

Immunity, Allergy

Ford, G. E., 1971, *Immunology*, v. 21 (6), 1073-1078

Trichostrongylus retortaeformis, heterogeneity of allergens and of homocytotropic antibody responses to them in rabbits

Immunity, Allergy

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Alaria americana, fatal human infection, several thousand mesocercariae extensively distributed throughout body, death resulted from asphyxiation due to extensive pulmonary hemorrhage probably caused by immune-mediated mechanisms, circumstances suggest inadequately cooked frog legs as source of infection, *Rana clamitans*, *R. pipiens*, *R. catesbiana*, and *Thamnophis sirtalis* in vicinity of family farm found to be infected with *Alaria* spp.: Ontario, Canada

Immunity, Allergy

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Onchocerca volvulus, pathology of ocular infections in humans and experimental rabbits, granulomatous lesions resulting from direct microfilarial invasion and inflammatory lesions a probable response to free microfilarial antigens, review of current research

Immunity, Allergy

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eosinophil chemotactic factors of parasites and host lesions, eosinophil chemotactic factors of immediate hypersensitivity reactions, dual role of eosinophils in host defense against parasitic infections, workshop report

Immunity, Allergy

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high IgE levels in an endemic zone of American cutaneous leishmaniasis: Jacarepagua, Guanabara, Brazil

Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Harris, W. G., 1973, *Immunology*, v. 24 (3), 567-577
Schistosoma mansoni allergens, initial separation into 10 fractions, comparative assay by passive cutaneous anaphylaxis, by systemic sensitization with local challenge, and most successfully by a Prausnitz-Kustner type reaction
- Immunity, Allergy
Harris, W. G., 1975, *Immunology*, v. 29 (5), 835-844
Schistosoma mansoni, allergens, further separation and characterization by Sephadex G-200 and ion-exchange chromatography, multicomponent nature of allergen-reagin axis in rat schistosomiasis, implications for use of purified antigens for field diagnosis of schistosomiasis
- Immunity, Allergy
Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 107-119
Demodex canis, dogs, immunofluorescent demonstration and quantitation of mast cell-bound IgE, estimation of serum IgE inconclusive, possible role of atopic sensitization in pathogenesis of canine demodectic mange
- Immunity, Allergy
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two different chemotactic factors for eosinophils, isolation from allergic tissue lesions induced by DNP-Ascaris suum extract in guinea pigs, characterization
- Immunity, Allergy
Hogarth-Scott, R. S., 1967, *Internat. Arch. Allergy and Applied Immunol.*, v. 32 (2), 201-207
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- Immunity, Allergy
Hogarth-Scott, R. S., 1973, *Immunology*, v. 24 (3), 503-509
Nippostrongylus brasiliensis, rats, peripheral circulating allergens as cause of loss of homologous passive cutaneous anaphylaxis reactivity, reaction appeared to be immunologically specific
- Immunity, Allergy
Hogarth-Scott, R. S.; and Feery, B. J., 1976, *Austral. J. Exper. Biol. and Med. Sc.*, v. 54 (4), 317-327
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- Immunity, Allergy
Hsu, C.-K.; et al., 1976, *Nature*, London (5567), v. 262, 397-399
Schistosoma mansoni, immunopathology in athymic mice vs. normal heterozygous mice, investigations of necessity of T-cell participation in eosinophil response, IgE formation, granuloma formation, and lymphocyte responsiveness
- Immunity, Allergy
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Toxocara canis in children, speculation on role of parasite in stimulating IgE antibody levels with resulting allergy to antigen and in turn occurrence of asthma
- Immunity, Allergy
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- Immunity, Allergy
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Ascaris suum allergen, isolation and partial characterization
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Ascaris suum, rabbits, formation of reaginic antibody
- Immunity, Allergy
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Nippostrongylus brasiliensis-infected rats, increase in serum IgE, most receptors for IgE on mast cells of infected animals are occupied by their own IgE, no differences in mast cells of normal vs. infected rats with respect to histamine content or intracellular levels of cyclic nucleotides
- Immunity, Allergy
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Nippostrongylus brasiliensis-infected rats, nature of IgE synthesis, role of T and B cells, characteristic properties of T cells primed by infection
- Immunity, Allergy
Ishizaka, T.; Urban, J. F., jr.; and Ishizaka, K., 1976, *Cellular Immunol.*, v. 22 (2), 248-261
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
Jarrett, E. E. E.; Haig, D. M.; and Bazin, H., 1976, *Clin. and Exper. Immunol.*, v. 24 (2), 346-351
Nippostrongylus brasiliensis, rats, relationship in time between elevation of total serum IgE, the parasite-specific IgE response, and the potentiated IgE response to unrelated antigen
- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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Nippostrongylus brasiliensis, attempts to transfer protective immunity and reagins passively to young rats in 3 different ways: by maternal milk, by feeding antiserum, and by antiserum given parenterally
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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Kessler, G. F.; Frick, O. L.; and Gold, W. M., 1974, *Internat. Arch. Allergy and Applied Immunol.*, v. 47 (3), 313-328
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- Immunity, Allergy
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fragmented canine lung preparation actively or passively sensitized to *Ascaris* antigen as useful in vitro model for study of immediate-type hypersensitivity reactions, biochemical and pharmacological characterization
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- Immunity, Allergy
Kwa, B. H.; and Liew, F. Y., 1977, *J. Exper. Med.*, v. 146 (1), 118-131
Taenia taeniaeformis, rats, vaccination with somatic antigen and excretory antigen and with purified fractions of both, stimulation of immediate-type and delayed-type hypersensitivity reactions, highly significant protection against challenge infection
- Immunity, Allergy
Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, *Immunology*, v. 31 (1), 1-19
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Mayrhofer, G.; Bazin, H.; and Gowans, J. L., 1976, *European J. Immunol.*, v. 6 (8), 537-545
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- Immunity, Allergy
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- Immunity, Allergy
Mitchell, G. F., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 79-94
Ascaris suum body fluid as antigen mixture, mice, effects on circulating reagin titers of manipulations such as T cell deprivation and reconstitution, lipopolysaccharide and cyclophosphamide injection, and altered route of administration of antigen

- Immunity, Allergy
 Munoz, J. J.; and Cole, R. L., 1977, *Infect. and Immun.*, v. 15 (1), 84-90
Trichinella spiralis-infected mice, relative unresponsiveness to passive cutaneous anaphylaxis induced with hen egg albumin and its corresponding antibodies, believed to be due to increase in production of IgE which competitively blocks mast cell sites for other IgE molecules
- Immunity, Allergy
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- Immunity, Allergy
 Neves, J.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 782-792
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 Obtulowicz, K., 1972, *Polski Tygod. Lekar.*, v. 27 (8), 296-298
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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Ascaris suum, rats, chemical and physico-chemical characterization of antigen-specific inhibitory T cell factor in hapten-specific homocytotropic antibody response
- Immunity, Allergy
 Okumura, K.; Tada, T.; and Ochiai, T., 1974, *Immunology*, v. 26 (2), 257-268
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- Immunity, Allergy
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- Immunity, Allergy
 Orren, A.; and Dowdle, E. B., 1975, *Internat. Arch. Allergy and Applied Immunol.*, v. 49 (6), 814-830
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- Immunity, Allergy
 Ottesen, E. A.; Smith, T. K.; and Kirkpatrick, C. H., 1975, *Internat. Arch. Allergy and Applied Immunol.*, v. 49 (3), 396-410
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
 Patterson, R.; and Harris, K. E., 1975, *Internat. Arch. Allergy and Applied Immunol.*, v. 49 (3), 381-390
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- Immunity, Allergy
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- Immunity, Allergy
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- Immunity, Allergy
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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Trichinella spiralis, rats, IgE antibodies not transferred from mother to young during lactation nor during pregnancy although they are sometimes secreted in the milk

Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Trichinella spiralis, differential ability of several inbred mouse strains of different histocompatibility locus specificities to produce reagin and IgG, antibodies in response to infection, relationship between production of anaphylactic antibodies and larval and adult recoveries, stage of life cycle which induces antibody formation

Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Immunity, Allergy

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Echinococcus granulosus-infected and uninfected sheep, intravenous injection with hydatid cyst fluid, clinical, cardiopulmonary, hematological, and pathological effects

Immunity, Allergy

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Immunity, Allergy

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Shimura, K.; et al., 1975, *Exper. Rep. Equine Health Lab.* (12), 30-43
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- Immunity, Allergy
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Ascaris lumbricoides in children resulting in cutaneous allergic reactions, skin test diagnosis, frequent mixed infections with *Trichuris trichiura* also diagnosed
- Immunity, Allergy
Smith, S. R.; et al., 1973, *Internat. Arch. Allergy and Applied Immunol.*, v. 44 (3), 382-395
potentiation of IgG_a and IgE reaginic responses to alum-precipitated dinitrophenylated bovine gamma-globulin with *Nippostrongylus brasiliensis*, rats
- Immunity, Allergy
Smith, S. R.; Petillo, J.; and Hwang, A., 1972, *Internat. Arch. Allergy and Applied Immunol.*, v. 43 (1), 145-157
high titers of reagins against egg albumin obtained in rats by initial immunization with egg albumin and *Bordetella pertussis* and subsequent infection with *N. brasiliensis*, IgE type antibodies against *N. brasiliensis* are also produced in these same animals but not until titers of IgE against egg albumin have decreased
- Immunity, Allergy
Soennichsen, N.; and Barthelmes, H., 1976, *Ang. Parasitol.*, v. 17 (2), 65-70
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- Immunity, Allergy
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Onchocerca volvulus, Nigerian patients, total serum IgE measured by radioimmunoassay, comparison with IgE levels in uninfected and atopic groups in Nigeria and California
- Immunity, Allergy
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- Immunity, Allergy
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Schistosoma mansoni, complement dependent cytotoxic antibodies, correlation with clinical forms of infection, levels of other specific anti-*S. mansoni* antibodies, delayed hypersensitivity and presence of urinary M antigen in host

Immunity, Antigens

- Carlier, Y.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (6, pt. 1), 949-954
Schistosoma mansoni, human, thermostable parasitic urinary antigen demonstrated, relation with clinical, biological, and immunological parameters (including fecal egg count, host age, precipitating antibodies, IgE levels, 24-hr intradermal test)

Immunity, Antigens

- Cerna, Z., 1975, *J. Protozool.*, v. 22 (3), 60A [Abstract]
 "Our preliminary experiments suggested that *E[imeria] contorta* isolated from rats and transmissible to mice may, evidently, be identical in its antigenic reaction to that of the mouse coccidians *E. falciformis* and *E. falciformis* var. *pragensis*"

Immunity, Antigens

- Chang, K.-P., 1976, *J. Protozool.*, v. 23 (2), 241-244
Blastocrithidia culicis, *Crithidia oncopelti*, symbiote-free strains: liver extract as essential growth factor in defined medium; cross-reactivity in reciprocal agglutination test with symbiote-containing strains indicates loss of symbiotes does not affect antigenic identity

Immunity, Antigens

- Cherian, P. V.; and Dusanic, D. G., 1977, *Exper. Parasitol.*, v. 43 (1), 128-142
Trypanosoma lewisi, bloodstream forms, surface antigens examined at ultrastructural level with direct and indirect ferritin-conjugated antibody techniques, formation of filopodia and evidence for their immunological reactivity

Immunity, Antigens

- Chernin, J., 1977, *J. Helminthol.*, v. 51 (3), 215-219
Taenia crassiceps in laboratory rats, antigen common to metacestode and host

Immunity, Antigens

- Clinton, B. A.; Palczuk, N. C.; and Stauber, L. A., 1972, *J. Immunol.*, v. 108 (6), 1570-1577
Leishmania donovani, promastigotes, partial characterization of some cytoplasmic antigens, delayed skin response to these fractions

Immunity, Antigens

- Collins, R. F.; and Ivey, M. H., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 455-459
 skin test responses in guinea pigs infected with small numbers of *Toxocara canis* or *Ascaris suum* and challenged intradermally with several adult and larval somatic antigenic preparations

Immunity, Antigens

- Collins, R. F.; and Ivey, M. H., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 460-464
 passive cutaneous anaphylaxis responses of sensitized guinea pigs to various antigens of adult and larval stages of *Toxocara canis* or *Ascaris suum*; homologous reactions; *Ascaris* larval antigen reacted with *Toxocara* antiserum

Immunity, Antigens

- Collins, W. E.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 373-376
Plasmodium knowlesi in *Macaca mulatta* (exper.), attempted immunization using heat-stable serum-soluble antigens, protection incomplete but with fewer deaths and reduced maximum parasitemia than in nonimmunized or Freund's adjuvant-immunized monkeys

Immunity, Antigens

- Cuperlovic, K., 1975, *Acta Vet. Beograd*, v. 25 (5), 219-227
Fasciola hepatica, uptake and incorporation of ^{75}Se -L-selenomethionine and ^{14}C -L-lysine into protein antigens

Immunity, Antigens

- Dar, F. K.; Paris, J.; and Wilson, A. J., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 319-329
Trypanosoma vivax, comparison of antigenic types isolated from wild tsetse flies in 2 geographically distinct areas of East Africa

Immunity, Antigens

- De Carli, G. A.; and Guerrero, J., 1976, *Rev. Latinoam. Microbiol.*, v. 18 (3), 167-171
Tritrichomonas suis and *T. foetus*, antigenic comparison by gel immunodiffusion; closely related antigenic structure found

Immunity, Antigens

- Deelder, A. M., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 206 [Abstract]
Schistosoma mansoni, demonstration of circulating protein and polysaccharide antigens and antigen-antibody complexes in heavily infected hamsters (exper.)

Immunity, Antigens

- Deelder, A. M.; et al., 1976, *Exper. Parasitol.*, v. 40 (2), 189-197
Schistosoma mansoni, demonstration of two circulating antigens (probably both polysaccharides) in infected hamsters, both demonstrated in serum, adult worm extracts, and excretory-secretory products of adult worms, one also demonstrated in urine, 2 additional schistosome-derived antigens found in urine

Immunity, Antigens

- Denev, I.; Komandarev, S.; and Mikhov, L., 1975, *Vet. Med. Nauki*, v. 12 (5), 19-26
Dictyocaulus filaria, comparative study of somatic and functional antigens, disk electrophoresis

Immunity, Antigens

- Despommier, D. D.; and Mueller, M., 1976, *J. Parasitol.*, v. 62 (5), 775-785
Trichinella spiralis, stichosome ultrastructure, stichocytes contain two major types of granules which contain antigens identical to those previously described from excretion-secretion products of mature muscle larvae

Immunity, Antigens

- Diesfeld, H. J.; and Kirsten, C., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 435-438
filariasis, human, diagnosis, new embedding technique employing 'methacrylate' for preparation of antigen (*Dipetalonema viteae*) to be used in indirect fluorescent antibody test (tested on onchocerciasis sera from Togo), compared with usual frozen-section method

Immunity, Antigens

- Dottorini, S., 1972, *Parassitologia*, v. 14 (1), 121-128
echinococcosis, ovine hydatid cyst fluid, investigation of antigens, fractions separated by gel-filtration chromatography, various bands of fractions further separated by immunoelectrophoresis; indirect hemoagglutination, complement fixation and determination of protein fractions

Immunity, Antigens

- Dottorini, S.; and Tassi, C., 1977, *Exper. Parasitol.*, v. 43 (2), 307-314
Echinococcus granulosus, characterization of main antigenic component ("arc 5") of hydatid fluid

Immunity, Antigens

- Druilhe, P.; and Monjour, L., 1975, *Compt. Rend. Soc. Biol., Paris*, v. 169 (4), 1089-1095
 human malaria, serodiagnosis, gel diffusion test using *Plasmodium falciparum* and *P. berghei* antigens prepared by different methods, compared with indirect immunofluorescence

Immunity, Antigens

- Duffus, W.P.H.; Preston, J. H.; and Staak, C. H., 1975, *J. Helminth.*, v. 49 (1), 1-7
Schistosoma bovis, fractionation of adult worm antigen, use in complement fixation, immunodiffusion, indirect haemagglutination and indirect haemagglutination inhibition tests, cross-reactions using sera from *Fasciola gigantica*-infected cattle

Immunity, Antigens

- Dwyer, D. M., 1974, *J. Protozool.*, v. 21 (1), 139-145
Trichomonas gallinae, *Histomonas meleagridis*, *Dientamoeba fragilis*, *Entamoeba invadens*, *E. histolytica*, antigenic relationships analyzed by immunoelectrophoretic techniques

Immunity, Antigens

- Dwyer, D. M., 1976, *J. Immunol.*, v. 117 (6), 2081-2091
Leishmania donovani, effects of specific antibodies on surface membrane antigens of amastigotes and promastigotes detected using direct and indirect immunofluorescence methods, capping process

Immunity, Antigens

- Dymowska, Z.; and Zielinska, E., 1975, Med. Dosw. i Mikrobiol., v. 27 (4), 411-415
Toxoplasma gondii, human, antigen for passive hemagglutination obtained by ultrasonic disintegration of cells highly specific for diagnosis, comparative trials

Immunity, Antigens

- Dzbencki, T. H., 1974, Tropenmed. u. Parasitol., v. 25 (4), 485-491
Trypanosoma cruzi, demonstration and characterization of exoantigen in blood of infected animals

Immunity, Antigens

- Eggitt, M. J., 1977, J. Protozool., v. 24 (4), 42A [Abstract]
 synthesis of variable and common antigens in rabbit reticulocyte cell-free system directed by *Trypanosoma brucei* RNA

Immunity, Antigens

- Ehrlich, I.; and Hrzjenjak, T., 1975, Vet. Arhiv, Zagreb, v. 45 (5-6), 129-132
Ascaris lumbricoides, thin layer chromatography of polar lipids from tissue homogenates, identification; globosides as possible antigen components

Immunity, Antigens

- El-On, J.; and Greenblatt, C. L., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 19 [Demonstration]
Trypanosoma lewisi, rats, increased susceptibility to infection when given cyclophosphamide (Cyl-rats) as immuno-suppressive, possible role of exoantigens in development of anemia, precipitating antibodies to *Trypanosoma lewisi* in rabbits inoculated with plasma from Cyl rats whether infected or not

Immunity, Antigens

- El-On, J.; and Greenblatt, C. L., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 19-20 [Demonstration]
Trypanosoma lewisi, production of exoantigens during cultivation at 37°C, partial protection against infection in rats injected with concentrated culture supernatant fluid

Immunity, Antigens

- El-On, J.; and Schnur, L. F., 1974, J. Protozool., v. 21 (3), 463-464 [Abstract]
Leishmania donovani, L. tropica, excreted antigens, purification and preliminary characterization

Immunity, Antigens

- Enayat, M. S., 1976, Pahlavi Med. J., v. 7 (3), 352-364
Litomosoides carinii, 2 specific antigenic components differentiated using gel diffusion and immunoelectrophoresis

Immunity, Antigens

- Felsenfeld, O.; and Wolf, R. H., 1973, Ann. Trop. Med. and Parasitol., v. 67 (3), 335-340
 cross-reactions and interference between *Trypanosoma brucei* and *Borrelia turicatae*, antigenic analysis, fluorescent antibody, and immobilisine studies, prolonged survival of mice simultaneously infected with both

Immunity, Antigens

- Ferrante, A.; and Jenkin, C. R., 1977, Austral. J. Exper. Biol. and Med. Sc., v. 55 (3), 275-280
Trypanosoma lewisi, dividing and adult forms share common antigens and persistence of adult forms in circulation of rats immune to reinfection not due to antigenic change but due to the presence of surface immunoglobulins

Immunity, Antigens

- Ford, G. E., 1971, Immunology, v. 21 (6), 1073-1078
Trichostrongylus retortaeformis, heterogeneity of allergens and of homocytotropic antibody responses to them in rabbits

Immunity, Antigens

- Fromentin, H.; and Wiart, J., 1975, Bull. Soc. Path. Exot., v. 68 (3), 306-312
 2 specific antigenic fractions of *Trypanosoma gambiense* demonstrated by tannic acid hemagglutination when applied to experimentally infected rodent sera

Immunity, Antigens

- Gam, A. A.; and Neva, F. A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 47-57
Trypanosoma cruzi, serodiagnosis using various epimastigote antigens and comparison with results obtained with trypomastigote amastigote antigen prepared from cell cultures, differences between antigens demonstrated by immunoprecipitation

Immunity, Antigens

- Garabedian, G. A.; and Zekian-Arslanian, B., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 435-437
 hydatid fluid antigen, filtration through Seitz EK filter pads, unsuitable for use in Casoni skin tests or indirect haemagglutination tests, membrane filters more satisfactory

Immunity, Antigens

- Ghose, A. C.; and Rowe, D. S., 1977, Immunochimistry, v. 14 (6), 459-465
Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity, Antigens

- Goedbloed, E.; et al., 1973, Ann. Trop. Med. and Parasitol., v. 67 (1), 31-43
Trypanosoma brucei subgroup, antigenic types of 38 strains isolated from more than 73,000 *Glossina* spp. from 4 geographically separate areas, intra- and inter-area and intra- and inter-strain comparisons, direct agglutination test used primarily: Uganda and Kenya, East Africa

- Immunity, Antigens
Goldman, M.; and Bukovsky, E., 1973, J. Protozool., v. 20 (4), 531
Babesia bigemina, soluble antigen capable of reacting with antiserum in gel diffusion plates has been extracted from infected plasma, hemolysates of infected red blood cells, and from sonicated parasites
- Immunity, Antigens
Goldman, M.; and Bukovsky, E., 1975, J. Protozool., v. 22 (2), 262-264
Babesia bigemina-infected bovine blood, extraction of soluble precipitating antigen, preliminary use in gel diffusion test with laboratory and field cattle
- Immunity, Antigens
Goldring, O. L.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 144-148
Schistosoma mansoni, detection of mouse host antigens and parasite antigens on surface of schistosome using indirect fluorescent antibody technique, suggests that presence of host antigens obviates binding of anti-schistosome antibody in sufficient quantity or in correct pattern to cause surface damage of schistosome
- Immunity, Antigens
Goldring, O. L.; Kusel, J. R.; and Smithers, S. R., 1977, Exper. Parasitol., v. 43 (1), 82-93
Schistosoma mansoni, origin in vitro of host-like blood group surface antigens, results show that such antigens are not synthesized by the parasite in glycolipid form and are not acquired from the host as glycoproteins
- Immunity, Antigens
Gonzaga dos Santos, L.; Santos, D. S.; and Azevedo, R., 1976, Ann. Trop. Med. and Parasitol., v. 70 (2), 219-225
Wuchereria bancrofti, human, diagnosis, immunofluorescence using microfilariae treated with papain as antigen
- Immunity, Antigens
Gonzalez Canina, S. M.; et al., 1976, J. Parasitol., v. 62 (1), 130-131
Trypanosoma cruzi, stability of protective ability of homogenate prepared by compression-decompression procedure at different pressures, mice
- Immunity, Antigens
Goodger, B. V., 1976, Internat. J. Parasitol., v. 6 (3), 213-216
Babesia argentina, crude soluble haemagglutination antigen contained fibrinogen, removal of fibrinogen removed most if not all antigenic activity, concluded that antigen was either babesial moiety complexed with fibrinogen or a fibrinogen molecule altered by parasite metabolic activity
- Immunity, Antigens
Gottlieb, M., 1977, J. Immunol., v. 119 (2), 465-470
Trypanosoma cruzi, carbohydrate-containing antigen, detection in circulation of infected mice
- Immunity, Antigens
Grove, D. I.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 220-229
antigen abstract prepared from subperiodic Brugia malayi compared with Dirofilaria immitis antigen in diagnosis of human filariasis, concluded that antigens from microfilariae, adult worms, and 3rd-stage larvae of B. malayi are more sensitive than D. immitis antigens and do not have a significantly higher number of false positive reactions: Philippines
- Immunity, Antigens
Guha, S.; and Sornmani, S., 1970, Southeast Asian J. Trop. Med. and Pub. Health, v. 1 (4), 564 [Demonstration]
Schistosoma mansoni-infected Australorbis glabratus (exper.), precipitating patterns of component antigens from hemolymph
- Immunity, Antigens
Gutman, G. A.; and Mitchell, G. F., 1977, Exper. Parasitol., v. 43 (1), 161-168
Ascaris suum, location of phosphorylcholine in lung larvae confined to internal membranous structures and lining of intestinal tract, outside of cuticle is negative, availability of phosphorylcholine-containing parasite antigens to host for immune induction may occur through intestinal excretions, damage to larvae, or at larval moulting stages
- Immunity, Antigens
Hamburger, J.; Pelley, R. P.; and Warren, K. S., 1976, J. Immunol., v. 117 (5), pt. 1, 1561-1566
Schistosoma mansoni, three major egg antigens, determination of stage and species specificity by radioimmunoassay
- Immunity, Antigens
Hamburger, J.; and Zuckerman, A., 1976, Exper. Parasitol., v. 39 (3), 460-478
Plasmodium berghei, soluble extract, fractionation by preparative disc electrophoresis, subsequent analytical disc electrophoresis, detection of precipitinogens by immunoelectrophoresis or by double immunodiffusion in agar gel, induction of precipitins in rabbits, physicochemical properties of soluble components, antigenic contaminants of host blood origin
- Immunity, Antigens
Hamburger, J.; and Zuckerman, A., 1976, Exper. Parasitol., v. 39 (3), 479-495
Plasmodium berghei, soluble extract, separation into 12 fractions by preparative disc electrophoresis, employment of fractions to seek precipitins in hyperimmune rat serum and in the vaccination of rats
- Immunity, Antigens
Harris, W. G., 1973, Immunology, v. 24 (3), 567-577
Schistosoma mansoni allergens, initial separation into 10 fractions, comparative assay by passive cutaneous anaphylaxis, by systemic sensitization with local challenge, and most successfully by a Prausnitz-Kustner type reaction

Immunity, Antigens

Harris, W. G., 1975, *Immunology*, v. 29 (5), 835-844

Schistosoma mansoni, allergens, further separation and characterization by Sephadex G-200 and ion-exchange chromatography, multicomponent nature of allergen-reagin axis in rat schistosomiasis, implications for use of purified antigens for field diagnosis of schistosomiasis

Immunity, Antigens

Harrison, L. J. S., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 275 [Demonstration] gel filtration and ion exchange chromatography used to purify saline extract of *Taenia saginata* with resultant fractions used as antigen for serologic tests on cattle experimentally infected with *Cysticercus bovis*

Immunity, Antigens

Heath, D. D., 1976, *Internat. J. Parasitol.*, v. 6 (1), 19-24

Taenia pisiformis larvae developing in vitro, period when protective antigens are elaborated, immunizing potential of non-living antigens from in vitro culture for rabbits, exogenous antigens more protective than somatic, biochemical analysis of exogenous antigens

Immunity, Antigens

Hedge, E. C.; and Ridley, D. S., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 304-307

evaluation of microfilarial antigen for use with indirect immunofluorescent test in diagnosing human filariasis; best results obtained with sonicated microfilariae of *Brugia pahangi* with which both cytoplasmic and sheath antigens could be utilized simultaneously

Immunity, Antigens

Herbert, I. V.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 116 [Demonstration]

Taenia hydatigena, antigenic analysis of metacystode shows identifiable host components in cyst fluid

Immunity, Antigens

Higashi, G. I.; and Young, S. W., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 343 [Letter]

human schistosomes, antigenic relationships with salmonellae, possibly shared surface antigens aid symbiotic state

Immunity, Antigens

Hillyer, G. V., 1976, *Fed. Proc.*, v. 35 (14), 2568-2571

Fasciola hepatica antigens used in protecting against *Schistosoma mansoni* challenge, common and/or cross-reacting antigens between *S. mansoni*, *S. japonicum*, and *F. hepatica*, possible role of eosinophil in acquired resistance

Immunity, Antigens

Hillyer, G. V., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 432-436

Schistosoma japonicum, chimpanzees, presence of circulating antigens in serum between 6 and 9 weeks post-exposure with later clearance, these antigens cross-react with antiserum against *S. mansoni*, persistence of these antigens could result in observed renal damage

Immunity, Antigens

Hillyer, G. V.; and Santiago de Weil, N., 1977, *J. Parasitol.*, v. 63 (3), 430-433

Fasciola hepatica, rats, partial purification of antigen for immunodiagnosis by counterelectrophoresis, improved specificity, compared with immunodiffusion

Immunity, Antigens

Honigberg, B. M.; et al., 1975, *J. Protozool.*, v. 22 (3), 23A [Abstract]

Trypanosoma brucei, bloodstream, culture, midgut, and proventricular forms, antigenic analysis by quantitative fluorescent antibody method

Immunity, Antigens

Honigberg, B. M.; et al., 1975, *J. Protozool.*, v. 22 (3), 23A-24A [Abstract]

Trypanosoma brucei, bloodstream and salivary gland forms, antigenic analysis by quantitative fluorescent antibody method

Immunity, Antigens

Honigberg, B. M.; et al., 1976, *Exper. Parasitol.*, v. 39 (3), 496-522

Trypanosoma brucei brucei, comparative antigenic analysis of different developmental stages (bloodstream, vector, and culture forms) by quantitative fluorescent antibody methods

Immunity, Antigens

Hoshino-Shimizu, S.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 492-496

Schistosoma mansoni, human, demonstration of schistosomal antigens in kidney infections, characterization of specific antigens and antibodies localized in kidney, evidence that renal injury is mediated through immune complex disease

Immunity, Antigens

Hungerer, K. D.; et al., 1974, *Behring Inst. Mitt.* (54), 100-106

C[ysticercus] bovis, *C. longicollis*, *T[aenia] saginata*, production and purification of antigens, use in indirect haemagglutination test, tests of cross reactions

Immunity, Antigens

Hussain, R.; Bradbury, S. M.; and Strejan, G., 1973, *J. Immunol.*, v. 111 (1), 260-268

Ascaris suum, characterization of highly purified allergen

Immunity, Antigens

Hussain, R.; Strejan, G.; and Campbell, D. H., 1972, *J. Immunol.*, v. 109 (3), 638-647

Ascaris suum allergen, isolation and partial characterization

- Immunity, Antigens
 Imai, J., 1972, *Nettai Igaku (Trop. Med.)*, v. 14 (3), 111-123
Paragonimus westermani, biochemical analysis of antigens, effects of heat, protein and carbohydrate content; reactions to agar-gel diffusion, complement fixation and electrophoresis
- Immunity, Antigens
 Itazi, O. K. A.; and Njogu, A. R., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 262 [Abstract]
Trypanosom[a] brucei, sugar nucleotides in antigen synthesis
- Immunity, Antigens
 Jakstys, B. P.; et al., 1974, *J. Protozool.*, v. 21 (2), 344-348
Plasmodium berghei, ultrastructural analysis of sporozoite antigens prepared by freeze-thawing vs. heat inactivation
- Immunity, Antigens
 Jatinandana, V.; and Savanat, T., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (1), 40-51
Entamoeba histolytica, antigenicity of sub-cellular components determined by two different methods (chemical extraction of antigens from sub-cellular fractions and antibody activity of reference sera after absorption with sub-cellular organelles)
- Immunity, Antigens
 Jatkar, P. R.; and Purohit, S. K., 1977, *Indian Vet. J.*, v. 54 (5), 411
Trypanosoma evansi, separation from blood of infected rats and mice for preparing antigen
- Immunity, Antigens
 Jatkar, P. R.; and Purohit, S. K., 1977, *Indian Vet. J.*, v. 54 (12), 1021-1024
Trypanosoma evansi antigens and erythrocytic antigens from infected horse blood, comparison by gel diffusion tests
- Immunity, Antigens
 Jenkins, S. N.; 1976, *Parasitology*, v. 73 (2), xiv [Abstract]
Trichuris muris, immunization with whole male and stichocyte antigen preparations and with 'exo' antigen obtained by incubation of adult worms, analysis of functional antigens by immunodiffusion and physicochemical treatments
- Immunity, Antigens
 Jenkins, S. N.; and Wakelin, D., 1977, *Parasitology*, v. 74 (2), 153-161
Trichuris muris, mice, vaccination with whole male worm extract, stichosome extract, and short-term incubation fluid in attempt to localize protective antigens and investigate them physico-chemically, concluded that one of protective immunogens is protein which can be associated with precipitin line and originates in stichosome
- Immunity, Antigens
 Kamiya, M.; Tharavanij, S.; and Harinasuta, C., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (2), 187-194
Angiostrongylus cantonensis, fractionation of male and female antigen extracts, antigenicity of each fraction determined by indirect hemagglutination and immunoelectrophoresis tests
- Immunity, Antigens
 Katamine, D., 1969, *Nettai Igaku (Trop. Med.)*, v. 11 (1), 1-10
Wuchereria bancrofti in humans, skin test diagnosis using purified antigen (FPT) prepared from *Dirofilaria immitis*, useful for tool in mass diagnostic survey
- Immunity, Antigens
 Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 502-508
Schistosoma mansoni, mice, induction of cellular and humoral immunological reactivity to soluble cercarial antigen preparation, assayed by in vitro lymphocyte blastogenic activity and by presence of agglutinating and reaginic antibody activity
- Immunity, Antigens
 Kemp, W. M.; et al., 1976, *J. Parasitol.*, v. 62 (3), 413-419
Schistosoma mansoni adults, immunocytochemical localization of mouse alpha 2-macroglobulin antigenic determinants on surface of worms of both murine and primate origin
- Immunity, Antigens
 Kershaw, W. E.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (1), 31-32 [Demonstration]
Litomosoides carinii in vitamin A deficient cotton rats and in vitamin E deficient cotton and white rats, antigen extracts from adults and microfilariae; *Nippostrongylus brasiliensis*, mast cell population in lungs of infected rats
- Immunity, Antigens
 Kilejian, A.; Abati, A.; and Trager, W., 1977, *Exper. Parasitol.*, v. 42 (1), 157-164
Plasmodium falciparum, *Plasmodium coatneyi*, knob-like protrusions on infected monkey erythrocyte membranes are antigenically different from adjacent areas devoid of knobs
- Immunity, Antigens
 Kloetzl, J.; Camargo, M. E.; and Giovannini, V. L., 1975, *J. Protozool.*, v. 22 (2), 259-261
Trypanosoma cruzi trypomastigotes vs. amastigotes vs. epimastigotes, antigenic differences demonstrated by indirect fluorescent antibody test
- Immunity, Antigens
 Komandarev, S.; and Mikhov, L., 1974, *Izvest. Tsentral. Khelmin. Lab.*, v. 17, 81-87
Trichinella spiralis, water-soluble antigens, fractionation and characterization

Immunity, Antigens

Kosmiderski, S.; Polak, S.; and Burczek, R., 1971, *Polski Tygod. Lekar.*, v. 26 (33), 1271-1272
 human taeniasis, styrene latex antigens used in diagnosis

Immunity, Antigens

Kouwenhoven, B.; and Kuil, H., 1976, *Vet. Parasitol.*, v. 2 (3), 283-292
Eimeria tenella, chickens, rabbits, demonstration of circulating antibodies by indirect immunofluorescent antibody test using sporozoites and second-stage schizonts as antigen

Immunity, Antigens

Krupp, I. M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 387-392
Entamoeba histolytica, antigenic pattern and variation in host response to amebic disease analyzed by immunoelectrophoretic patterns and indirect hemagglutination titers in sera obtained from patients from various parts of the world

Immunity, Antigens

Kua-Eyre, S.-L.; and Honigberg, B. M., 1976, *J. Protozool.*, v. 23 (2), 18A [Abstract]
Trichomonas vaginalis, 5 strains with different pathogenicity levels, antigenic analysis, some correlation seems to exist between antigenic composition and pathogenicity levels

Immunity, Antigens

Kumar, P. S.; et al., 1977, *Indian J. Med. Research*, v. 66 (5), 756-764
Toxoplasma gondii, preparation of *Toxoplasma* hemagglutination antigen from parasites grown in tissue culture, comparison of sensitivity and specificity with antigen prepared from peritoneal exudate of infected mice (exper.)

Immunity, Antigens

Kuo, C. Y.; and Yoo, T. J., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 54 (4), 308-314
Ascaris suum, new allergen obtained from perienteric fluid through isoelectric focusing techniques

Immunity, Antigens

Kushimo, J. B., 1976, *Immunology*, v. 30 (5), 635-639
 IgM and IgG antibody responses to complexes of denatured *Trypanosoma brucei* DNA and methylated bovine serum albumin, compared to exclusive IgM response to calf thymus DNA-MBSA complexes, rabbits

Immunity, Antigens

Lang, B. Z., 1976, *J. Parasitol.*, v. 62 (2), 232-236
Fasciola hepatica, treatment of 16-day-old flukes in anti-worm incubate sera and anti-25-day infection sera, significant decrease in ability to continue migration in normal recipient mice; successful vaccination with crude incubate antigen

Immunity, Antigens

Lanham, S. M., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 270 [Abstract]
 trypanosomes, enzymatic identification of precipitating antigens

Immunity, Antigens

La Placa, M.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 396-398
 partially purified protein and polysaccharide antigens obtained from *Leishmania donovani*, both fractions induce positive intradermal skin reaction, but only the protein fraction detects humoral antibody in complement fixation tests

Immunity, Antigens

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Sarcocystis, soluble antigen prepared from zoites obtained by pepsin digestion techniques, indirect hemagglutination test and agar gel diffusion test in cattle, possible use in diagnosis, antigen did not cross-react with sera of *Toxoplasma*-positive humans and did not react with sera from *Sarcocystis*-infected dogs

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Immunity, Antigens

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Immunity, Antigens

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Immunity, Antigens

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Immunity, Antigens

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Immunity, Antigens

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Immunity, Antigens

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- Immunity, Antigens
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- Immunity, Antigens
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- Immunity, Antigens
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- Immunity, Antigens
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- Immunity, Antigens
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Immunity, Antigens

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- Immunity, Antigens
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- Immunity, Antigens
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- Immunity, Antigens
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pathogenic vs. free-living Naegleria, comparison by gel-diffusion and immunoelectrophoresis reactions
- Immunity, Antigens
Yarzabal, L. A.; et al., 1977, J. Parasitol., v. 63 (3), 495-499
antigen 5 of Echinococcus granulosus found to also be a component of E. multilocularis, radioimmunoelectrophoretic, immunodiffusion, and immunoabsorption studies, implications for immunodiagnosis of hydatid disease
- Immunity, Antigens
Yarzabal, L. A.; et al., 1977, Exper. Parasitol., v. 42 (1), 115-120
Echinococcus granulosus, localization of hydatid fluid antigen B (a thermostable lipoprotein) in larval tissues
- Immunity, Antigens
Vizcaino G., O.; and Todorovic, R. A., 1975, Rev. Inst. Colomb. Agropec., v. 10 (1), 77-85
Babesia bigemina, B. argentina, characterization of antigens, complement fixation, immunodiffusion, cross-immunity tests
- Immunity, Antigens
Weiss, M. L., 1976, Exper. Parasitol., v. 40 (1), 103-111
Plasmodium berghei, mouse strain noninfective but highly immunogenic for Meriones unguiculatus was adapted to M. unguiculatus through serial passage of infected blood, antigenic changes during adaptation, loss of infectivity for mice, different antigens apparently responsible for immunogenicity vs. infectivity, vaccination led to production of some protective antibody but also to blocking and enhancing antibody
- Immunity, Antigens
Weiss, N.; and Degremont, A., 1976, Praxis, Bern, v. 65 (24), 742-744
human malaria, comparative evaluation of Plasmodium gallinaceum, P. falciparum and P. cynomolgi bastianellii as antigens for indirect immunofluorescence used for diagnosis
- Immunity, Antigens
Willadsen, P., 1976, FEBS Letters, v. 72 (2), 346-349
Boophilus microplus, allergenic activity of a tick esterase
- Immunity, Antigens
Willadsen, P.; and Williams, P. G., 1976, Immunochimistry, v. 13 (7), 591-597
Boophilus microplus larvae, isolation of antigen which produces immediate hypersensitivity reaction in naturally infected cattle, characterized as esterase with molecular weight of approximately 60,000
- Immunity, Antigens
Williams, A. I. O., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (5), 621-630
Plasmodium falciparum, preparation and use of malarial placenta antigen for immunodiffusion studies: Ibadan, Western State of Nigeria

- Immunity, Antigens**
 Williams, J. F.; Perez Esandi, M. V.; and Oriol, R., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 575-579
 evaluation of purified lipoprotein antigens of *Echinococcus granulosus* in the immunodiagnosis of human infection using hemagglutination, immunoelectrophoresis and skin tests
- Immunity, Antigens**
 Wilson, A. J.; Dar, F. K.; and Paris, J., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 313-317
Trypanosoma congolense, comparison of antigenic types isolated from wild tsetse flies in 4 geographically distinct areas of East Africa
- Immunity, Antigens**
 Wilson, R. J. M.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 308-312
Plasmodium falciparum, human, precipitating antibody response to malarial S-antigens, age distribution, other factors affecting production and detection of such antibodies: The Gambia
- Immunity, Antigens**
 Wilson, R. J. M.; McGregor, I. A.; and Hall, P. J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 460-467
Plasmodium falciparum, persistence and recurrence of S-antigens in human serum following antimalarial treatment, correlation with density of parasitemia and antigen titer observed before treatment
- Immunity, Antigens**
 Wilson, R. J. M.; McGregor, I. A.; and Williams, K., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 453-459
Plasmodium falciparum, prevalence of malarial S-antigens in human serum or plasma, relationship of antigen presence to season and infection intensity
- Immunity, Antigens**
 Yarzabal, L.; et al., 1976, *Exper. Parasitol.*, v. 40 (3), 391-396
Echinococcus granulosus hydatid cysts, tissue localization of specific antigen "5" detected by indirect immunofluorescent test
- Immunity, Antigens**
 Yuan, L.; and Sell, K. W., 1974, *Immunochemistry*, v. 11 (5), 235-242
Schistosoma mansoni, guinea pigs, development of delayed hypersensitivity in response to antigens extracted from cercariae, successful transfer of cercarial delayed hypersensitivity with lymphoid cells, pronase treatment decreased immunogenicity and antigenicity of cercarial antigens suggesting that protein components play major role
- Immunity, Antigens**
 Zapart, W.; Adonajfo, A.; and Gancarz, Z., 1969, *Acta Parasitol. Polon.*, v. 16 (1-19), 1968-1969, 9-19
Trichinella spiralis, sera from infected humans, evaluation of fractionated antigens, complement fixation and ring precipitation tests
- Immunity, Antigens**
 Zapart, W.; Slusarski, W.; and Ptasiński, J., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 223-229
 human cerebral cysticercosis and echinococcosis, skin testing as valuable adjunct in diagnosis, antigens used were acid soluble protein fractions of *Taenia solium* proglottids, *T. solium* cysts, and *Echinococcus granulosus* protoscolices
- Immunity, Antigens**
 Zeledon, R.; and Ponce, C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (5), 414-415 [Letter]
 human chronic Chagas disease, immediate skin test reaction using soluble protein antigen from parasites grown in culture, cross-reaction from cutaneous leishmaniasis differentiated by Montenegro test
- Immunity, Antigens**
 Zuckerman, A., 1977, *Exper. Parasitol.*, v. 42 (2), 374-446
Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions
- Immunity, Autoimmunity**
 Afchain, D.; et al., 1975, *Medecine Afrique Noire*, v. 22 (5), 351-360
Trypanosoma (*Trypanozoon*) *brucei* gambiense, human diagnosis using immunoelectrophoresis, little evidence for autoimmunity in human sleeping sickness
- Immunity, Autoimmunity**
 Amsel, S.; Ssebabi, E. C. T.; and Nzaro, E., 1974, *Clin. and Exper. Immunol.*, v. 16 (4), 657-663
 red cell autoantibody demonstrated in Ugandan sera, not associated with acute attacks of malaria
- Immunity, Autoimmunity**
 Bear, P. D., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 16-18
Anaplasma marginale, biochemical and immunological nature, brief review: nucleic acids; opsonins and autoimmunity
- Immunity, Autoimmunity**
 Capbern, A.; et al., 1977, *Ann. Parasitol.*, v. 52 (3), 237-251
Trypanosoma equiperdum, 2 strains giving rise to different clinical disease in rabbits (exper.), aspects of immune response (specific antibodies, hypermacroglobulinemia, anti-fibrinogen auto-antibodies) and coagulation disorders
- Immunity, Autoimmunity**
 Capron, A.; et al., 1977, *Ann. Immunol.*, v. 128C (1-2), 541-556
 impairment of immune response in parasitic infections characterized by high prevalence of autoantibodies and by immunosuppression, review discussing malaria, trypanosomiasis, trichinosis, and schistosomiasis, with some original material on the last

Immunity, Autoimmunity

Carlier, Y.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 530-531 [Letter]

Schistosoma mansoni in humans, skin tests and serologic investigation of autoimmune reactivity to DNA liver and kidney antigens, results suggest delayed hypersensitivity to DNA liver and kidney antigens but little serological evidence of autoimmune reactions

Immunity, Autoimmunity

Cossio, P. M.; et al., 1977, Am. J. Path. (418), v. 86 (3), 533-544

Trypanosoma cruzi, immunopathologic and morphologic studies of chagasic cardiopathy, deposits of immunoglobulins found at plasma membrane of working myocardial and endothelial cells, cytologic location of bound gammaglobulin coincident with specificity of circulating antibodies; findings suggest the possibility that lymphocyte-mediated immune response against heart tissue may participate in some of pathogenetic mechanisms of chronic cardiopathy

Immunity, Autoimmunity

Cox, H. W.; and Calaf-Iturri, G., 1976, Ann. Trop. Med. and Parasitol., v. 70 (1), 73-79

Haemobartonella muris in rats, *Eperythrozoon coccoides* in mice, production of essentially same disease characterized by anemia with splenomegaly and erythrophagocytosis associated with presence of cold-active haemagglutinin, serum antigen, and antibody to serum in blood

Immunity, Autoimmunity

Cox, K. O.; Howard, R. J.; and Mitchell, G. F., 1977, Cellular Immunol., v. 32 (1), 223-227

Babesia rodhaini, increased numbers of plaque-forming cells secreting antibodies to modified mouse erythrocytes in spleens of heavily infected BALB/c·nu/+ mice but not in spleens of infected hypothyroid BALB/c·nu/nu mice, role of antierythrocyte autoantibodies in pathogenesis controversial

Immunity, Autoimmunity

Ghanem, M. H.; et al., 1975, Egypt. J. Bilharz., v. 2 (2), 271-276

Schistosoma mansoni, measurement of immunoprecipitins to somatic antigens in patients with liver and spleen involvement; possible roles of cercariae, adult worms, and eggs in producing pathology with schistosome ova probably initiating autoimmune reactions

Immunity, Autoimmunity

Gomez Garcia, V.; Lozano Maldonado, J.; and Gonzalez Castro, J., 1973, Rev. Iber. Parasitol., v. 33 (2-3), 447-448

Fasciola hepatica, preliminary study of precipitation reactions among bile, serum and bile extract of infected and uninfected sheep in various combinations; hypothesis that fascioliasis can have role in formation of autoantibodies, that is, that biliary products are antigenic for the host

Immunity, Autoimmunity

Goodger, B. V., 1976, Internat. J. Parasitol., v. 6 (3), 213-216

Babesia argentina, crude soluble haemagglutination antigen contained fibrinogen, removal of fibrinogen removed most if not all antigenic activity, concluded that antigen was either babesial moiety complexed with fibrinogen or a fibrinogen molecule altered by parasite metabolic activity

Immunity, Autoimmunity

Hawking, F.; Wilson, A. J.; and Paris, J., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 289 [Letter]

Trypanosoma congolense, effect of dexamethasone upon infection in calves, results suggest that anemia was not due to auto-immunization but probably due to direct toxic action of trypanosomes on blood

Immunity, Autoimmunity

Hendrickse, R. G., 1975, Paediat. Indonesiana, v. 15 (3-4), 83-92

Plasmodium malariae in children as cause of immune complex nephritis probably involving an auto-immune process, treatment efforts still unsatisfactory

Immunity, Autoimmunity

Hooshmand-Rad, P., 1976, Research Vet. Sc., v. 20 (3), 324-329

Theileria annulata, intact susceptible calves, pre-mune calves following splenectomy, pathogenesis of anemia, role of erythrocytic forms and schizonts, involvement of auto-immune reaction is proposed

Immunity, Autoimmunity

Houba, V., 1976, Pathophysiol. Parasit. Infect., 221-232

immunopathological mechanisms in parasitic disease, review (immune complexes; complement; autoimmunity; cell-mediated reactions; immunodepression)

Immunity, Autoimmunity

Huebsch, R. M.; Sulzer, A. J.; and Kagan, I. G., 1976, J. Parasitol., v. 62 (4), 523-527

evaluation of sensitivity and specificity of indirect immunofluorescence test for auto-immune-type EVI antibodies in sera of patients with Chagas disease (*Trypanosoma cruzi*), leishmaniasis (*Leishmania brasiliensis*, *L. donovani*), malaria, and several other non-parasitic diseases; second type of staining of heart tissue also reported for patients with leishmaniasis and malaria but not Chagas' disease

Immunity, Autoimmunity

Hussein, H. S., 1976, Ztschr. Parasitenk., v. 50 (2), 103-108

Babesia hylomysci, mice, ⁵⁹Fe labelling of hemoglobin demonstrating parasite's preference for mature erythrocytes, direct destruction of erythrocytes as main cause of anemia and autoimmune reaction as probable factor

- Immunity, Autoimmunity
Jones, C. E., 1977, *Exper. Parasitol.*, v. 42 (2), 261-273
Schistosoma japonicum, rabbits, investigation of possible role of immune complexes in renal pathology and hepatic fibrosis: serum cryogelatinification and cryoprecipitation phenomena; temporal aspects of anti-DNA response
- Immunity, Autoimmunity
Jones, C. E.; Lewert, R. M.; and Ozel, M. A., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 613-616
anti-liver antibodies discovered in rabbits infected with *Schistosoma japonicum*
- Immunity, Autoimmunity
Kamo, E., 1972, *Med. J. Shinshu Univ.*, v. 17 (2), 37-55
pathogenesis of liver cirrhosis as an autoimmune disease in exper. *Schistosoma japonicum*-infected rabbits
- Immunity, Autoimmunity
Lindsley, H. B.; Kysela, S.; and Steinberg, A. D., 1974, *J. Immunol.*, v. 113 (6), 1921-1927
Trypanosoma rhodesiense, *T. gambiense*, humans, development of antibodies to nucleic acids, possible pathophysiological relationship to renal disease remains to be determined
- Immunity, Autoimmunity
Lustig, H. J.; Nussenzweig, V.; and Nussenzweig, R. S., 1977, *J. Immunol.*, v. 119 (1), 210-216
Plasmodium berghei-infected mice, IgG and IgM present on circulating erythrocytes (both parasitized and nonparasitized), this Ig could be part of immune complexes non-specifically bound to cell surface or could constitute autoantibodies against reticulo-cytes or antibodies against parasite antigens present on cell membrane
- Immunity, Autoimmunity
McGhee, R. B., 1976, *Exper. Parasitol.*, v. 39 (1), 88-94
Plasmodium gallinaceum-infected immunoincompetent chicken embryos, changes in blood picture in response to injection of serum from hyperimmunized chickens, results suggest definite role of immunity in anemia accompanying malaria, failure to clarify question of autoimmunity
- Immunity, Autoimmunity
MacKenzie, A. R., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 269 [Abstract]
Trypanosoma brucei, rabbits, anti-liver and anti-Wassermann response can occur in young animals not possessing the antibodies before infection, but production of Forssman (heterophile) antibody appears to require presence of antibody at time of infection
- Immunity, Autoimmunity
MacKenzie, A. R.; Boreham, P. F. L.; and Facer, C. A., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 268 [Abstract]
Trypanosoma congolense, *T. brucei*, cattle, anti-liver, anti-Wassermann, and anti-fibrinogen antibodies, human serum from sleeping sickness patients also showed raised levels of these autoantibodies, trypanosome-infected lions and hyaenas did not
- Immunity, Autoimmunity
Mansfield, J. M.; and Kreier, J. P., 1972, *Infect. and Immun.*, v. 5 (5), 648-656
Trypanosoma congolense, rabbits (exper.), complement-fixing and precipitating autoantibodies to normal allogeneic and autologous tissues, passive transfer of autoantibody to normal rabbits did not produce observable pathology, cell-mediated autoimmunity was not shown
- Immunity, Autoimmunity
Miatello, V. R.; Zanetti, N. L.; and Miatello, V. R., hijo, 1974, *Medicina*, Buenos Aires, v. 34 (5), 532-538
excision of echinococcal pulmonary cyst in young girl resulted in disappearance of concurrent nephrotic syndrome, evidence supports immunological process of immune complexes or auto-antibodies as link between two disease processes
- Immunity, Autoimmunity
Michalak, T.; and Slusarczyk, J., 1976, *Pediat. Polska*, v. 51 (3), 241-245
Pneumocystis carinii autoantibodies to smooth muscles in children with *Pneumocystis pneumonia*, possible stimulation of these autoantibodies by actomyosin-like antigens released from pneumocysts or respiratory tract cells during process of development of immune complexes
- Immunity, Autoimmunity
Ngu, J. L.; and Blackett, K., 1976, *Trop. and Geogr. Med.*, v. 28 (2), 111-120
Onchocerc[a] volvulus in humans, immunologic studies attempting to delineate role of humoral and cellular immune responses in the heterogeneity of onchocercal lesions
- Immunity, Autoimmunity
Ross, J. M.; and Van Regenmortel, M. H. V., 1977, *Ann. Immunol.*, v. 128C (4-5), 817-832
Trypanosoma equiperdum, rabbits, serum IgM and IgG levels, fractions found to contain both anti-trypanosome antibodies and autoantibodies to host tissue antigens, failure to confirm earlier reports of presence of rheumatoid factor
- Immunity, Autoimmunity
Rushton, B., 1976, *Research Vet. Sc.*, v. 21 (2), 242-243
Fasciola hepatica, sheep, increase of complement fixation (CF) and passive haemagglutinating (PH) auto-antibody titres after primary and challenge infections, apparent organ and species specific PH antigen in sheep liver mitochondria, CF auto-antibodies neither organ nor species specific

- Immunity, Autoimmunity
dos Santos, R. R.; de Oliveira, J. C. R.; and Rossi, M. A., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 167
human chronic Chagas disease, presence of IgG and IgM antibodies to neurons suggests immunological mechanism involved in qualitative and quantitative alterations of autonomic nervous system
- Immunity, Autoimmunity
Soni, J. L.; and Cox, H. W., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 423-430
Plasmodium gallinaceum, chickens, soluble complexes of serum antigen and its antibody may be mediator of acute anemia, serologic identity of serum antigen from malarious chickens and from Babesia rodhaini-infected rats and its distinction from parasite antigen suggest that it might be an autoantigenic macroglobulin
- Immunity, Autoimmunity
Suzuki, N.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 35-40
Toxoplasma gondii, mice and rats (exper.), blood changes; rats (exper.), antibody titers by dye test and indirect immunofluorescence, erythrocytes showed positive Coombs' reaction suggesting presence of auto-immune acquired hemolytic process
- Immunity, Autoimmunity
Szarfman, A.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 19-24
evaluation of specificity of EVI factor observed in Trypanosoma cruzi cases using indirect fluorescent antibody test on sera from patients with other parasitic diseases, immunofluorescence of anti-skeletal muscle antibody from leishmaniasis
- Immunity, Autoimmunity
Szarfman, A.; et al., 1975, Clin. Immunol. and Immunopathol., v. 4 (4), 489-499
T[rypanosoma] cruzi, 6 children with congenital Chagas' disease, presence of circulating EVI and specific anti-T. cruzi antibodies, skeletal muscle biopsies showed immunoglobulin deposits, findings suggest possible pathogenic role of EVI antibody in lesions
- Immunity, Autoimmunity
Szarfman, A.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 453 [Letter]
Trypanosoma cruzi, evidence of tissue reacting antibodies in parasitemic children possibly originating in cross-reacting antigens between T. cruzi and human tissues
- Immunity, Autoimmunity
Teixeira, A. R. L., 1977, Advances Exper. Med. and Biol., v. 93, 243-280
Trypanosoma cruzi, immunoprophylaxis, review: life cycle in vector and host; clinical manifestations of Chagas' disease; mechanisms of resistance (natural and acquired immunity, humoral and cell-mediated); autoimmunity; antigenic structure; live vaccines; dead vaccines; perspectives for further studies
- Immunity, Autoimmunity
Topley, J.; Knight, R.; and Woodruff, A. W., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 51-54
malaria patients, direct antiglobulin test and immunoconglutinin titres, possible significance of results in understanding mechanism of anemia
- Immunity, Autoimmunity
de la Vega, M. T.; Damilano, G.; and Diez, C., 1976, J. Parasitol., v. 62 (1), 129-130
chronic Trypanosoma cruzi-infected humans, positive leukocyte migration inhibition test with heart antigens, results suggest cell-mediated immune response against heart tissue could participate in mechanism of myocardial damage in Chagas' disease
- Immunity, Autoimmunity
Voller, A., 1975, Symposia Brit. Soc. Parasitol., v. 13, 69-84
immunopathology of malaria, extensive review: immunosuppression and auto-immunity; tropical splenomegaly syndrome; nephrotic syndrome
- Immunity, Autoimmunity
Wistar, R.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (4), 632-637
Schistosoma japonicum, rhesus monkeys, induction of anti-immunoglobulin (rheumatoid-factor-like) antibodies, role in immune response unclear, results suggest that immunization protocols designed for humans be carefully examined for potential immunopathological side effects of induced autoimmune responses
- Immunity, Capillary tube agglutination. See Immunity, Agglutination.
- Immunity, Cell-mediated
Aalund, O.; and Nansen, P., 1972, Acta Vet. Scand., v. 13 (4), 591-593
Fasciola hepatica, rabbits, development of delayed type hypersensitivity observed by migration inhibition studies on peripheral leucocytes
- Immunity, Cell-mediated
Abrahamsohn, I. A.; and da Silva, W. D., 1977, Parasitology, v. 75 (3), 317-323
Trypanosoma cruzi, antibody-dependent cell-mediated cytotoxicity against epimastigotes by normal mouse splenic lymphocytes
- Immunity, Cell-mediated
Adams, D. B.; and Rothwell, T. L. W., 1977, Exper. Parasitol., v. 42 (1), 121-128
Trichostrongylus colubriformis, guinea pigs, passive transfer of immunity using mesenteric lymph node cells, influence of various factors (immunization schedule for cell donors; size of cell dose transferred; size of challenge dose; age of both cell donors and recipients), rate of worm rejection from recipients

Immunity, Cell-mediated

- Aiyedun, B. A.; and Amodu, A. A., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 611-612 [Letter]
Trypanosoma gambiense, rabbits, cell-mediated hypersensitivity, transferable with spleen cells

Immunity, Cell-mediated

- Anderson, S. E.; Bautista, S.; and Remington, J. S., 1976, J. Immunol., v. 117 (2), 381-387
intracellular Toxoplasma gondii infection in human monocyte-derived macrophages in vitro can be inhibited or killed by soluble lymphocyte products contained in supernatants prepared from either antigen or mitogen-stimulated lymphocytes (homologous antigen more active than heterologous antigen or mitogen)

Immunity, Cell-mediated

- Araujo, F. G.; et al., 1977, Clin. and Exper. Immunol., v. 28 (2), 289-291
Schistosoma mansoni, impairment of cell-mediated immune response in mice with mature infections as measured through rejection of skin grafts

Immunity, Cell-mediated

- Askenase, P. W., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 96-103
immune inflammatory responses to parasites, interconnections between immediate and delayed hypersensitivities, role of basophils, mast cells, and vasoactive amines (Trichostrongylus colubriformis; ticks; Schistosoma mansoni), workshop report

Immunity, Cell-mediated

- Askenase, P. W.; Hayden, B.; and Higashi, G. I., 1976, Clin. and Exper. Immunol., v. 23 (2), 318-327
Schistosoma mansoni, guinea-pigs, cutaneous schistophil hypersensitivity (CBH) reactions to schistosome eggs or soluble egg antigens (SEA), contact hypersensitivity-like CBH responses to live cercarial challenge by skin penetration in sensitized animals, SEA-induced macrophage migration inhibition in infected guinea pigs manifesting CBH reactions

Immunity, Cell-mediated

- Baker, K. P., 1977, Irish Vet. J., v. 31 (10), 141-147
fleas, human hypersensitivity, dermatitis, clinical signs, epidemiology, diagnosis, histopathology, treatment, control, review

Immunity, Cell-mediated

- Banerjee, D. P.; et al., 1977, Trop. Animal Health and Prod., v. 9 (3), 153-158
Babesia equi, donkeys (vaccinated, infected and carrier intact, and splenectomised), intradermal skin test developed to demonstrate hypersensitivity reaction, leucocyte migration inhibition test developed

Immunity, Cell-mediated

- Baron, R. W.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (1), 37-42
Echinococcus multilocularis in T-cell depleted A/J mice, adult thymectomy enhances metastasis but not growth of cysts, combined thymectomy and antithymocyte serum enhances both cyst growth and metastasis, suggested that cell-mediated immunity controls early phase of infection

Immunity, Cell-mediated

- Barr, M. L.; et al., 1977, Cellular Immunol., v. 33 (2), Oct., 447-451
Plasmodium berghei, transfer of immunity to mice by RNA from spleens and lymph nodes of immune rats

Immunity, Cell-mediated

- Behin, R.; Mauel, J.; and Rowe, D. S., 1977, Clin. and Exper. Immunol., v. 29 (2), 320-325
Leishmania enriettii, guinea pigs, inhibition of leishmanial lesion by delayed hypersensitivity reaction to unrelated antigens, concluded that cell-mediated immunity plays important role in healing leishmanial lesions

Immunity, Cell-mediated

- Belehu, A.; Poulter, L. W.; and Turk, J. L., 1976, Clin. and Exper. Immunol., v. 24 (1), 125-132
Leishmania enriettii, guinea pigs, pretreatment with cyclophosphamide, increased intensity of initial lesion and increased incidence of widespread metastases, decreased levels of circulating antibody, possible differential roles of cell-mediated immunity and humoral antibody in cutaneous leishmaniasis

Immunity, Cell-mediated

- Belehu, A.; and Turk, J. L., 1976, Infect. and Immun., v. 13 (4), 1235-1241
Leishmania enriettii, establishment of self-healing type of cutaneous leishmaniasis in hamsters, course of infection, immunopathological response, useful model

Immunity, Cell-mediated

- Blackwood, L. L.; and Molinari, J. A., 1976, Abst. Ann. Meet. Am. Soc. Microbiol., 82
Trichinella spiralis, mice, delayed hypersensitivity to heterologous antigens, immune capabilities dependent upon phase of parasitic life cycle

Immunity, Cell-mediated

- Blewett, T. M.; Kadivar, D. M. H.; and Soulsby, E. J. L., 1971, Am. J. Trop. Med. and Hyg., v. 20 (4), 546-551
cell-mediated immunity in cutaneous leishmaniasis in guinea pig, mitogenic stimulation by antigens on peripheral lymphocytes and inhibition of macrophage migration

Immunity, Cell-mediated

- Bloch, K. J.; Towle, C.; and Mills, J. A., 1977, Cellular Immunol., v. 28 (1), 181-189
Nippostrongylus brasiliensis, rats, mesenteric lymph node and spleen cells, stimulation by worm metabolic antigen and by con A of tritiated thymidine incorporation

- Immunity, Cell-mediated
Boros, D. L., 1976, Ann. N. York Acad. Sc., v. 278, 36-46
Schistosoma mansoni, granuloma formation etiology, cell-mediated immunity aspects, review
- Immunity, Cell-mediated
Boros, D. L.; Pelley, R. P.; and Warren, K. S., 1975, J. Immunol., v. 114 (5), 1437-1441
Schistosoma mansoni, mice, spontaneous modulation of granulomatous hypersensitivity, concomitant rise in circulating antibody levels and fall in spleen cell responsiveness to antigen
- Immunity, Cell-mediated
Boros, D. L.; Tomford, R.; and Warren, K. S., 1977, J. Immunol., v. 118 (1), 373-376
Schistosoma mansoni, induction of granulomatous and elicitation of cutaneous sensitivity by partially purified soluble egg antigens
- Immunity, Cell-mediated
Boros, D. L.; and Warren, K. S., 1973, Immunology, v. 24 (3), 511-529
Schistosoma mansoni, model for study of granulomatous inflammation employing bentonite particles coated with soluble antigens and injected i.v. into micro-vasculature of sensitized mice
- Immunity, Cell-mediated
Boros, D. L.; Warren, K. S.; and Pelley, R. P., 1973, Nature (5430), v. 246, 224-226
Schistosoma mansoni, secretion of migration inhibitory factor by intact schistosome egg granulomas maintained in vitro
- Immunity, Cell-mediated
Bray, R. S.; and Harris, W. G., 1977, Clin. and Exper. Immunol., v. 29 (1), 147-151
Entamoeba histolytica, guinea pigs, cellular immune responses to amoebic liver abscess, no dermal hypersensitivity but positive lymphocyte transformation and macrophage-migration inhibition, time sequence of responses, role of immunodepression unclear
- Immunity, Cell-mediated
Brown, A. P.; et al., 1977, J. Immunol., v. 119 (4), 1275-1278
Schistosoma mansoni, partial purification of egg antigens that elicit delayed hypersensitivity in appropriately sensitized guinea pigs
- Immunity, Cell-mediated
Brown, K. N.; Jarra, W.; and Hills, L. A., 1976, Infect. and Immun., v. 14 (4), 858-871
Plasmodium berghei, rats, development of protective T cell activity
- Immunity, Cell-mediated
Bruce, R. G.; Rose, M.; and Parrott, D. M. V., 1976, Parasitology, v. 73 (2), xvii-xviii [Abstract]
Trichinella spiralis, mice, lymphoblasts, enhanced migration to and localization in small intestinal tissue at 2 and 4 days after infection but not at 6-10 days, primary effectors of cell-mediated response in gut
- Immunity, Cell-mediated
Bruce, R. G.; and Wakelin, D., 1977, Parasitology, v. 74 (2), 163-173
Trichinella spiralis, Trichuris muris, concurrent infection in mice, interactive expulsive response considered an example of indirect cross-immunity with no element of antigenic similarity, involvement of cell-mediated inflammatory response strongly suggested
- Immunity, Cell-mediated
Bryceson, A. D. M., 1975, Symposia Brit. Soc. Parasitol., v. 13, 85-100
mechanisms of disease in leishmaniasis, extensive review with some previously unpublished results: host-parasite specificity; prevention or evasion of immune response; role of immune response in production of disease; healing; immunity to reinfection
- Immunity, Cell-mediated
Bryceson, A. D. M.; Bray, R. S.; and Dumonde, D. C., 1974, Clin. and Exper. Immunol., v. 16 (2), 189-201
Leishmania enriettii, guinea pigs inoculated with graded doses, relationship between clinical course of infection and immunological response, selective suppression of cell-mediated immunity, extent of delayed hypersensitivity closely related to degree of host resistance, role of humoral antibody less clear
- Immunity, Cell-mediated
Buening, G. M., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 71-76
Anaplasma marginale, calves (intact, splenectomized, vaccinated, unvaccinated), comparison of results in leukocyte migration inhibition test, complement fixation test, and intradermic skin tests
- Immunity, Cell-mediated
Buening, G. M., 1976, Am. J. Vet. Research, v. 37 (10), 1215-1218
Anaplasma marginale, cell-mediated immune response in splenectomized and intact calves, micro cell-mediated cytotoxicity assay and leukocyte migration-inhibition test compared, no correlation between in vitro assay systems
- Immunity, Cell-mediated
Burger, H. J., 1977, Zentralbl. Vet.-Med., Reihe B, v. 24 (1), 1-24
Trichinella spiralis, interference with the cellular immunological system of rats, antithymocyte serum and an antiserum retarded immune elimination of T. spiralis from intestine, more pronounced effects in neonatally thymectomized rats; homologous immune serum unable to restore the retarding effect of neonatal thymectomy and/or antithymocyte serum treatment; results suggest that T cells are involved in immune elimination
- Immunity, Cell-mediated
Butterworth, A. E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), Nov., 29-38
effector mechanisms against schistosomes in vitro with emphasis on eosinophils as important component in immunity, workshop report

Immunity, Cell-mediated

Butterworth, A. E.; et al., 1976, Clin. and Exper. Immunol., v. 25 (1), 95-102

Schistosoma mansoni, technique for estimating antibody-dependent cell-mediated damage to schistosomula by measuring release of ^{51}Cr from labelled organisms, time course of development of cell-dependent cytotoxic activity in sera of infected baboons

Immunity, Cell-mediated

Butterworth, A. E.; et al., 1977, J. Exper. Med., v. 145 (1), 136-150

Schistosoma mansoni, eosinophil as effector cell in antibody-dependent cell-mediated damage to schistosomula: cytotoxic activity of eosinophil-enriched preparations; lack of cytotoxicity by preparations depleted of eosinophils; greater cytotoxicity mediated by cells from normal vs. eosinophilic subjects; damage not enhanced by lymphocytes, neutrophils, or monocytes

Immunity, Cell-mediated

Byram, J. E.; and von Lichtenberg, F., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 944-956

Schistosoma mansoni, schistosome egg-induced lesions in nude mice compared with heterozygous controls, nude mice lacked hypersensitivity granulomas and failed to sequester toxic egg products which resulted in zonal hepatocellular damage

Immunity, Cell-mediated

Cabrera, E. J.; et al., 1976, Ztschr. Parasitenk., v. 50 (1), 31-42

Plasmodium knowlesi, monkeys immunized by antigen from infected erythrocytes, delayed dermal hypersensitivity response, protection against challenge infection; preliminary biochemical analysis of antigen

Immunity, Cell-mediated

Cabrera, E. J.; Alger, N. E.; and Silverman, P. H., 1973, J. Protozool., v. 20 (3), 449-452

Plasmodium berghei, rats, adoptive immunity transferred by 2×10^7 or 2×10^8 but not 2×10^6 immune spleen cells, spleen cells kept at 47 C for 45 min were no longer able to transfer protection; capacity to transfer adoptive immunity not found in spleen cells from unexposed adult rats capable of age immunity, but found in spleen cells from rats that had suffered very transient parasitemia

Immunity, Cell-mediated

Campo-Aasen, I.; Aleman, C.; and Torrealba, J. W., 1975, Acta Cien. Venezolana, v. 26 (5), 159-169

Leishmania, hairless mouse, paravertebral muscle, ultrastructure, pathology, mitochondria alteration, cellular defensive activity

Immunity, Cell-mediated

Camus, D.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 169 [Letter]

Trypanosoma cruzi in humans, application of leucocyte migration inhibition test to study of delayed hypersensitivity to parasitic infection

Immunity, Cell-mediated

Camus, D.; et al., 1976, J. Infect. Dis., v. 134 (4), 405-408

Schistosoma mansoni, uninfected children born to infected mothers, intradermal reactions, delayed hypersensitivity to adult antigen

Immunity, Cell-mediated

Camus, D.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (3), 482-490

Schistosoma mansoni, attempted correlation of immunoglobulin levels, antibodies, and delayed hypersensitivity reactions in infected patients living in defined endemic area: Bahia state, Brazil

Immunity, Cell-mediated

Canto Solis, A.; et al., 1975, Prensa Med. Mexicana, v. 40 (9-10), 275-281

Entamoeba histolytica, human hepatic abscess, immunologic study of infected persons revealed evidence of altered humoral and cellular immunity

Immunity, Cell-mediated

Capron, A.; et al., 1973, Path. Biol., v. 21 (10), 1079-1084

lethal factor obtained from human sera infected with Schistosoma mansoni or S. haematobium demonstrated lethal action on schistosomula in culture, significant correlation between lethal factor and in vivo and in vitro tests for delayed hypersensitivity

Immunity, Cell-mediated

Capron, A.; et al., 1977, European J. Immunol., v. 7 (5), 315-322

Schistosoma mansoni, rats, Ig-E immune complex-mediated macrophage cytotoxicity against schistosomula, new mechanism of macrophage activation could play role in immune effector mechanisms against this parasite

Immunity, Cell-mediated

Capron, A.; et al., 1977, Ann. Immunol., v. 128C (1-2), 541-556

impairment of immune response in parasitic infections characterized by high prevalence of autoantibodies and by immunosuppression, review discussing malaria, trypanosomiasis, trichinosis, and schistosomiasis, with some original material on the last

Immunity, Cell-mediated

Capron, A.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 39-47

Schistosoma mansoni, interaction between IgE and macrophages and other effector cells involved in the in vitro killing of schistosomules, interaction of IgG_a with same cell populations, possible cooperation between various antibody-dependent cell-mediated mechanisms and their possible in vivo relevance, workshop report

Immunity, Cell mediated

Capron, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 248-253

Schistosoma mansoni, complement dependent cytotoxic antibodies, correlation with clinical forms of infection, levels of other specific anti-S. mansoni antibodies, delayed hypersensitivity and presence of urinary M antigen in host

Immunity, Cell-mediated

Carlier, Y.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 530-531 [Letter]

Schistosoma mansoni in humans, skin tests and serologic investigation of autoimmune reactivity to DNA liver and kidney antigens, results suggest delayed hypersensitivity to DNA, liver and kidney antigens but little serological evidence of autoimmune reactions

Immunity, Cell-mediated

Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, Am. J. Vet. Research, v. 37 (9), 1059-1063

Anaplasma marginale, effect of blood group substances vs. parasitic components on induction of delayed cutaneous hypersensitivity and production of isoagglutinins in cattle injected with live or inactivated parasites in ovine or bovine erythrocytes, results indicate that inactivated sheep origin vaccine may avoid eliciting neonatal isoerythrolysis syndrome in calves from vaccinated dams

Immunity, Cell-mediated

Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, Vet. Parasitol., v. 2 (1), 75-81

Anaplasma marginale, cattle, cell-mediated immunity and correlation with protection induced by vaccination, review

Immunity, Cell-mediated

Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, Am. J. Vet. Research, v. 38 (2), 173-179

Anaplasma marginale, cell-mediated immune response in cattle given virulent, attenuated and inactivated preparations, measured by leukocyte migration-inhibition test and lymphocyte transformation of blood leukocytes

Immunity, Cell-mediated

Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, Am. J. Vet. Research, v. 38 (8), 1167-1172

Anaplasma marginale, cows (exper.), cell-mediated immunity and severity of clinical symptoms in response to challenge infection after inoculation with virulent, live attenuated, or killed *A. marginale*, effect of chemosterilization on residual immunity

Immunity, Cell-mediated

Castro, G. A.; Roy, S. A.; and Schanbacher, L. M., 1975, J. Parasitol., v. 61 (6), 1053-1060

Trichinella spiralis, untreated worms or worms exposed to phytohemagglutinin or immune serum, in vitro effects of lamina propria cells from small intestine of immunized rats, deleterious effect of disrupted (but not intact) cells on juveniles and adults (but not larvae), vermucidal component not linked to peroxidase-H₂O₂-halide system

Immunity, Cell-mediated

Chen, D. H.; Tigelaar, R. E.; and Weinbaum, F. I., 1977, J. Immunol., v. 118 (4), 1322-1327

Plasmodium berghei, immunization of T and B cell-deficient mice with x-irradiated sporozoites, results demonstrate preeminent role for T cells in induction of protective immunity against sporozoite infection

Immunity, Cell-mediated

Chen, P.; and Dean, D. A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 963-974

Schistosoma mansoni, in vitro blastogenesis and macrophage migration inhibition factor (MIF) production in response to cercarial, adult worm, and egg antigens tested in guinea pigs; early cessation of MIF response to schistosome antigens suggests MIF assay as useful tool for examining immune suppression to schistosomiasis

Immunity, Cell-mediated

Chimyskhan, K. L.; et al., 1976, Biomedicine, v. 25 (5), 176-180

inhibition of transplantation immunity and ability of lymphoid cells to induce graft-versus-host reactions during certain phases of *Trichinella spiralis* infections

Immunity, Cell-mediated

Clinton, B. A.; Palczuk, N. C.; and Stauber, L. A., 1972, J. Immunol., v. 108 (6), 1570-1577

Leishmania donovani, promastigotes, partial characterization of some cytoplasmic antigens, delayed skin response to these fractions

Immunity, Cell-mediated

Cohen, S.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 223-232

malaria, role of humoral and cell-mediated mechanisms in specific acquired immunity to erythrocytic stage, current status of merozoite vaccination, workshop report

Immunity, Cell-mediated

Cohen, S.; Butcher, G. A.; and Mitchell, G.H., 1977, Advances Exper. Med. and Biol., v. 93, 89-112

immunization against erythrocytic forms of malaria parasites, review: malaria life cycle; innate and acquired resistance to malaria (specific malarial antibody, protective malarial antibody, synergistic action of malarial antibody and cells, role of specific cell-mediated immunity in malaria, isolation and properties of merozoites); vaccination against erythrocytic forms of malaria (vaccination and challenge using undefined and defined variants of *Plasmodium knowlesi*, adjuvant requirement for successful vaccination)

Immunity, Cell-mediated

Coleman, R. M.; et al., 1975, Immunology, v. 29 (1), 49-54

Plasmodium berghei, mice, cell-mediated cytotoxic activity against erythrocytes from malaria-infected animals demonstrated in vitro, splenic macrophages and nylon-purified spleen cells are implicated, antibody found to enhance cell-mediated lysis

Immunity, Cell-mediated

Coleman, R. M.; Bruce, A.; and Rencricca, N. J., 1976, J. Parasitol., v. 62 (1), 137-138

Plasmodium berghei, inhibition of macrophage migration in vitro may be an analog of macrophage disappearance reaction in vivo, mice

- Immunity, Cell-mediated
Colley, D. G., 1975, *J. Immunol.*, v. 115 (1), 150-156
Schistosoma mansoni, mice, chronic primary infection, immune responses to soluble egg antigen (lymphocyte blastogenesis, production of lymphokine eosinophil stimulation promoter, haemagglutinating antibody, PGA antibodies, peripheral blood eosinophilia), relationship to anti-egg granulomatous response and pathogenesis of the disease
- Immunity, Cell-mediated
Colley, D. G.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (5, part 1), 917-925
Schistosoma mansoni, human lymphocyte blastogenic responses to schistosome antigen preparations, suppressive effects of patient sera on responses induced by schistosome eggs and adult worms increased in relationship to duration of serum donor's schistosomal infection, indications that patients develop serum components which interfere with responsiveness of lymphocytes to schistosome-derived antigenic preparations
- Immunity, Cell-mediated
Colley, D. G.; et al., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 53 (5), 420-433
Schistosoma mansoni, human, *in vitro* lymphocyte blastogenic responses to heterogeneous antigenic preparations from schistosome eggs, worms, and cercariae, analysis with regard to longevity and intensity of infection
- Immunity, Cell-mediated
Cossio, P. M.; et al., 1977, *Am. J. Path.* (418), v. 86 (3), 533-544
Trypanosoma cruzi, immunopathologic and morphologic studies of chagasic cardiopathy, deposits of immunoglobulins found at plasma membrane of working myocardial and endothelial cells, cytologic location of bound gammaglobulin coincident with specificity of circulating antibodies; findings suggest the possibility that lymphocyte-mediated immune response against heart tissue may participate in some of pathogenetic mechanisms of chronic cardiopathy
- Immunity, Cell-mediated
Crandall, R. B.; Crandall, C. A.; and Muth, B., 1976, *J. Parasitol.*, v. 62 (2), 321-323
acute *Plasmodium berghei yoelii* infection in mice, comparison of delayed hypersensitivity response mediated through spleen vs. that mediated through peripheral lymph nodes
- Immunity, Cell-mediated
Dargie, J. D.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 249-271
Fasciola hepatica, rats, cattle, sheep, active immunization, passive transfer of immunity by cells and serum, pathogenetic mechanisms underlying development of hepatic fibrosis
- Immunity, Cell-mediated
David, J. R.; and Butterworth, A. E., 1977, *Fed. Proc.*, v. 36 (8), 2176-2180
Schistosoma mansoni, antibody-dependent eosinophil-mediated damage to schistosomula, review of recent work
- Immunity, Cell-mediated
Dennis, M. V.; Klesius, P. H.; and Dixon, C. F., 1976, *J. Alabama Acad. Sc.*, v. 47 (3), 116 [Abstract]
Eimeria stiedai sporozoites, rabbit peritoneal macrophages, cell-mediated immune response, phagocytosis in presence or absence of serum, immune rabbit serum has no significant effect on phagocytosis
- Immunity, Cell-mediated
Diffley, P.; Skeels, M. R.; and Sogandares-Bernal, F., 1976, *Ztschr. Parasitenk.*, v. 49 (2), 133-137
Naegleria fowleri, guinea pigs infected subcutaneously, tested with antigen derived from trophozoites, delayed hypersensitivity reaction; differences in immunocompetence of guinea pigs infected subcutaneously or intranasally discussed
- Immunity, Cell-mediated
Dineen, J. K.; Kelly, J. D.; and Love, R. J., 1973, *Internat. Arch. Allergy and Applied Immunol.*, v. 45 (4), 504-512
Nippostrongylus brasiliensis, mesenteric lymph node cells from immunized donors caused expulsion of transplanted damaged worms or adult worms developed from larval infection in both irradiated or non-irradiated syngeneic recipients but cells from unimmunized donors failed to affect the parasite
- Immunity, Cell-mediated
Dineen, J. K.; Ogilvie, B. M.; and Kelly, J. D., 1973, *Immunology*, v. 24 (3), 467-475
Nippostrongylus brasiliensis, expulsion from intestine of rats, collaboration between humoral and cellular components of immune response
- Immunity, Cell-mediated
Dorchies, P., 1975, *Rev. Med. Vet. Toulouse*, v. 126 (10), 1237-1248
helminthiasis, delayed and immediate hypersensitivity, immunological tolerance, epidemiological and pathological aspects, application to diagnosis and immunization, review
- Immunity, Cell-mediated
Droller, M. J.; and Remington, J. S., 1975, *Cellular Immunol.*, v. 19 (2), 349-355
Toxoplasma-infected mice, correlation between decrease in adenyl cyclase activity in lymphocytes and macrophages and resistance to tumor growth, data suggest that production of cyclic AMP by lymphocytes is inhibited with activation of certain cell-mediated immune functions
- Immunity, Cell-mediated
Duffus, W. P. H.; and Wagner, G. G., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 85-95
Theileria parva, cattle, rosette-forming cell technique as an indicator of cell-mediated immune response
- Immunity, Cell-mediated
Dunn, M. A.; et al., 1977, *J. Clin. Invest.*, v. 59 (4), 666-674
Schistosoma mansoni-infected mice, liver collagen synthesis, reproducible animal model of immunologically stimulated human liver fibrosis

Immunity, Cell-mediated

Dwork, K. G.; Jaffe, J. R.; and Lieberman, H. D., 1975, *N. York State J. Med.*, v. 75 (8), 1230-1234

Strongyloides stercoralis, massive hyperinfection in humans with attenuated cell-mediated immunity, case report of mixed infection with toxoplasmosis, literature review of known cases, thiabendazole therapy helpful

Immunity, Cell-mediated

Farah, F. S.; Lazary, S.; and De Weck, A., 1976, *Immunology*, v. 30 (5), 629-634

Leishmania tropica and its products are capable of inhibition of the stimulation of normal mouse and guinea-pig lymphocytes by phytohaemagglutinin, inhibition is dose-dependent and not dependent on competition for nutrients in medium nor on neutralization of phytohaemagglutinin, inhibition observed on lymphocytes of species susceptible to leishmanial infection but not operative in resistant species

Immunity, Cell-mediated

Faubert, G. M.; and Tanner, C. E., 1975, *Immunology*, v. 28 (6), 1041-1050

Trichinella spiralis, leucoagglutinating and leucotoxic activity of serum of infected mice and of saline extracts of larvae, capacity of infected mouse sera to prolong skin allografts

Immunity, Cell-mediated

Fegies, M.; and Guerrero, J., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 178-179
Toxoplasma gondii in humans, levamisole used alone or in conjunction with sulfamethoxazole and trimetoprin as chemical immunomodulator of cellular immune response, results of clinical trials favorable

Immunity, Cell-mediated

Finerty, J. F.; and Krehl, E. P., 1976, *Infect. and Immun.*, v. 14 (4), 1103-1105

Plasmodium berghei yoelii, mice, protection from lethal infection by pretreatment with cyclophosphamide, development of resistance preceded by increased hypersensitivity demonstrated by delayed footpad swelling technique

Immunity, Cell-mediated

Finerty, J. F.; and Krehl, E. P., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 377-381

Plasmodium berghei yoelii, reactions in mice immunized with malarial antigen show that cell-mediated immunity depends on route of immunization and type of antigen

Immunity, Cell-mediated

Forestier, M.F.; Chateaubrynaud, P.; and Pautrizel, R., 1977, *J. Protozool.*, v. 24 (4), 59A [Abstract]

Trypanosoma equiperdum, mice, role of T lymphocytes in immunologic defense

Immunity, Cell-mediated

Fox, E. G.; and Schacher, J. F., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 523

Brugia pahangi-infected syngeneic laboratory rat-strains, permits differential studies of cellular response elicited by filarial infection and possible analysis of effect of histocompatibility type on immunopathologic picture of infection in man

Immunity, Cell-mediated

Franco, M. F.; and Morley, J., 1976, *J. Immunol. Methods*, v. 11 (1), 7-14

Trypanosoma cruzi, mice, use of ¹²⁵I-labelled albumin for detection and measurement of delayed-hypersensitivity reactions

Immunity, Cell-mediated

Garcia, E. G., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 282-288

Schistosoma japonicum, humans, pathophysiology, granuloma formation caused by delayed type hypersensitivity reaction to eggs in tissue

Immunity, Cell-mediated

Gardner, I. D.; and Remington, J. S., 1977, *Infect. and Immun.*, v. 16 (2), 593-598

Toxoplasma gondii, mice, age-related decline in resistance to infection, possible role of serum factors and spleen cells in altered resistance of older mice

Immunity, Cell-mediated

Ghose, A. C.; and Rowe, D. S., 1977, *Immunochimistry*, v. 14 (6), 459-465

Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity, Cell-mediated

Glauert, A. M.; and Butterworth, A. E., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 291-292 [Demonstration]

Schistosoma mansoni, eosinophil-mediated cytotoxicity to schistosomula, morphological elucidation of mechanism

Immunity, Cell-mediated

Golenser, J.; et al., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 95-98

Plasmodium berghei, spleen cells from previously infected rats and mice, lymphocyte transformation test with plasmodial antigen, higher parasitemia correlated with higher in vitro stimulation of lymphocytes

Immunity, Cell-mediated

Greenwood, B. M.; and Greenwood, A. M., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 581-585

Plasmodium berghei yoelii-infected NZB and B/W hybrid mice, adult mice more susceptible to infection than young mice of same strains, probably due to defective cell-mediated immunity in adults

Immunity, Cell-mediated

Greenwood, B. M.; Whittle, H. C.; and Molyneux D. H., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 846-850

Trypanosoma gambiense, human, immunosuppression, cell-mediated and humoral immunity both impaired

- Immunity, Cell-mediated
Grove, D. I.; Hamburger, J.; and Warren, K. S., 1977, *J. Infect. Dis.*, v. 136 (4), 562-570
Trichinella spiralis, kinetics of infection in mice (exper.), immunologic responses, resistance to reinfections, pathology
- Immunity, Cell-mediated
Grove, D. I.; Mahmoud, A. A. F.; and Warren, K. S., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 54 (5), 422-427
metronidazole appears to suppress selectively some aspects of cell-mediated immunity, including granuloma formation around Schistosoma mansoni eggs in unsensitized but not in previously sensitized mice
- Immunity, Cell-mediated
Grove, D. I.; and Warren, K. S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (4), 449-453
Trichinella spiralis, mice, niridazole suppresses cell-mediated reactions but leaves humoral antibody formation relatively intact
- Immunity, Cell-mediated
Harris, W. G.; and Bray, R. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 340-343
Entamoeba histolytica, humans in carrier and disease states, results of lymphocytic transformation in response to specific antigen and to mitogen, specific cellular immunodepression as possible factor in amoebic invasion of bowel mucosa
- Immunity, Cell-mediated
Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 121-131
Demodex canis, development of clinical signs of demodectic mange in beagle pups receiving mites and antilymphocyte serum, results indicate importance of cell-mediated response in immune defense against demodectic mange
- Immunity, Cell-mediated
Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 133-140
Demodex canis, dogs, immediate and delayed skin reactions to phytohemagglutinin and concanavalin A, suppression of delayed response suggests that dogs with demodicosis may have hypoactive cellular immune system, possible mechanism of immediate response
- Immunity, Cell-mediated
Hepler, D. I.; and Lueker, D. C., 1976, *Abst. Ann. Meet. Am. Soc. Microbiol.*, 76
Nematospiroides dubius, mice (exper.), cellular and humoral response after oral immunization
- Immunity, Cell-mediated
Herman, R., 1977, *Exper. Parasitol.*, v. 42 (1), 211-220
Plasmodium chabaudi, physical interaction in vitro between splenic lymphocytes from immune mice and syngeneic peritoneal macrophages which had phagocytized and processed infected red cells, specific antigen-mediated binding of sensitized lymphocytes to macrophage membranes was demonstrated, interaction possible expression of role for T cells in immunity in rodent malaria
- Immunity, Cell-mediated
Hirsh, D. C.; et al., 1975, *Am. J. Vet. Res.*, v. 36 (11), 1591-1595
Demodex canis, suppression of in vitro reactivity of peripheral lymphocytes to phytohemagglutinin by serum from dogs with generalized demodicosis, possible role of T-lymphocyte dysfunction in pathogenesis
- Immunity, Cell-mediated
Hof, H.; et al., 1976, *Ann. Microbiol.*, v. 127 B (4), 503-507
Toxoplasma gondii, nude mice, neither more susceptible nor more resistant to primary infection with virulent cells; treatment with sulfadiazine protected against acute fatal disease; only normal mice survived after treatment withdrawn; high amounts of antibodies in normal mice, none in nude mice
- Immunity, Cell-mediated
Hof, H.; Hoehne, K.; and Seeliger, H. P. R., 1976, *Canad. J. Microbiol.*, v. 22 (10), 1453-1457
Toxoplasma gondii, mice, macrophages apparently do not play essential role as effector cells, spleen of crucial importance for resistance
- Immunity, Cell-mediated
Houba, V., 1976, *Pathophysiol. Parasit. Infect.*, 221-232
immunopathological mechanisms in parasitic disease, review (immune complexes; complement; autoimmunity; cell-mediated reactions; immunodepression)
- Immunity, Cell-mediated
Hsu, C.-K.; et al., 1976, *Nature*, London (5567), v. 262, 397-399
Schistosoma mansoni, immunopathology in athymic mice vs. normal heterozygous mice, investigations of necessity of T-cell participation in eosinophil response, IgE formation, granuloma formation, and lymphocyte responsiveness
- Immunity, Cell-mediated
Hsu, S. Y. L.; et al., 1975, *J. Reticuloendothel. Soc.*, v. 18 (3), 167-185
Schistosoma japonicum, rhesus monkeys, mechanism of immunity studied by histopathologic examinations of skin lesions elicited during immunizations and challenge with cercariae, role of cell-mediated immunity, significance of time of appearance of eosinophils, role of synergistic and cooperative functions of T and B cells
- Immunity, Cell-mediated
Jacobson, R. H.; and Reed, N. D., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 160-168
Nippostrongylus brasiliensis, mice, thymus-dependent lymphocytes are required to elicit both humoral and cell-mediated steps of worm expulsion
- Immunity, Cell-mediated
James, S. L.; and Colley, D. G., 1975, *J. Reticuloendothel. Soc.*, v. 18 (5), 283-293
intact schistosome egg granulomas isolated from Schistosoma mansoni-infected mice, production of lymphokine eosinophil stimulation promoter in vitro

Immunity, Cell-mediated

Jenkins, S. N., 1977, *Parasitology*, v. 75 (2), xiv [Abstract]
Trichuris muris, mice, cell transfer studies highlight complexity of interaction of humoral and cellular immune response

Immunity, Cell-mediated

Jennings, F. W.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 151 [Abstract]
 [trypanosoma] *brucei*-infected mice, immunosuppression, assessment of lymphoid cell response to antigenic stimulation by incorporation of iododeoxyuridine into lymph nodes; immunosuppression apparently specifically associated with presence of living trypanosomes as immunity partially restored if sensitization occurred same day as drug treatment

Immunity, Cell-mediated

Kagan, I. G., 1970, *Immun. Parasitic Animals* (Jackson, Herman and Singer), v. 2, 1137-1163
 evaluation of immune state by immunologic techniques, review

Immunity, Cell-mediated

Kasper, L. H.; and Alger, N. E., 1973, *J. Protozool.*, v. 20 (3), 445-449
Plasmodium berghei, mice, adoptive transfer of immunity, effect of number of cells transferred, source of cells (spleen vs. lymph node), and age of host from which they are derived

Immunity, Cell-mediated

Kasuya, S.; Ohtomo, H.; and Ishizaki, T., 1977, *Japan. J. Med. Sc. and Biol.*, v. 30 (6), 297-307
 suppressing effects of purified eosinophils derived from *Ascaris lumbricoides* suum-immunized guinea pigs on lymphocyte blast formation

Immunity, Cell-mediated

Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 502-508
Schistosoma mansoni, mice, induction of cellular and humoral immunological reactivity to soluble cercarial antigen preparation, assayed by in vitro lymphocyte blastogenic activity and by presence of agglutinating and reaginic antibody activity

Immunity, Cell-mediated

Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 509-521
Schistosoma mansoni, mice, intradermal response against soluble cercarial antigenic preparation was sequentially mediated by early antibody response and late developing cellular response as demonstrated histologically and by passive transfer of serum and lymphoid cells

Immunity, Cell-mediated

Kazura, J. W.; et al., 1975, *J. Infect. Dis.*, v. 132 (6), 702-706
Schistosoma mansoni, in vitro assay for lymphokine eosinophil stimulation promoter, useful in vitro correlate of delayed hypersensitivity, test can be easily performed with human target cells and may be helpful for diagnostic or investigative purposes

Immunity, Cell-mediated

Kelly, J. D.; and Dineen, J. K., 1972, *Immunology*, v. 22 (2), 199-210
Nippostrongylus brasiliensis, rats, successful adoptive immunization with mesenteric lymph node cells from immune donors

Immunity, Cell-mediated

Khoury, P. B.; and Soulsby, E. J. L., 1977, *Exper. Parasitol.*, v. 41 (1), 141-159
Ascaris suum, guinea pigs, lymphoid cell responses during primary infections assessed by antigen-induced lymphocyte transformation, rosette-formation, and rosette-plaquiring techniques, progression of local lymphoid cell responses in lymphoid organs draining parasitized tissues

Immunity, Cell-mediated

Khoury, P. B.; and Soulsby, E. J. L., 1977, *Exper. Parasitol.*, v. 41 (2), 432-445
Ascaris suum, immunized guinea pigs given challenge infections, lymphoid cell responses of draining lymph nodes and spleen, in vitro antigen-induced lymphocyte transformation, rosette formation, rosette inhibition, and rosette-plaquiring techniques

Immunity, Cell-mediated

Khoury, P. B.; Stromberg, B. E.; and Soulsby, E. J. L., 1977, *Immunology*, v. 32 (4), 405-411
Ascaris suum, guinea pigs, passive transfer of immunity by cells or serum, significant protection with immune IgG2, IgE + IgG1 and whole immune serum or with lymphocytes from hepatic and mediastinal lymph nodes of immune animals, minimal protection with IgM and IgA, spleen lymphocytes enhanced rather than reduced degree of infection

Immunity, Cell-mediated

Kim, C. W.; Fragola, A. C.; and Rega, R. J., 1977, *J. Parasitol.*, v. 63 (6), 1133-1135
Trichinella spiralis, low dose of antigen in combination with Freund's complete adjuvant is effective in inducing and transferring delayed hypersensitivity in the guinea pig as manifested by skin test reactions, typical histopathology and absence of circulating antibody

Immunity, Cell-mediated

Klesius, P. H.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 480-490
Eimeria bovis, cattle, evidence for cell-mediated immune response shown by delayed hypersensitivity skin tests and lymphocyte blastogenesis with antigens extracted from oocysts of *E. bovis* and *E. stiedai*, cross-reactivity between two species

Immunity, Cell-mediated

Klesius, P. H.; and Fudenberg, H. H., 1977, *Clin. Immunol. and Immunopathol.*, v. 8 (2), 238-246
 cattle, transfer of cell-mediated immunity to *Eimeria bovis* antigen with bovine transfer factor (unfractionated or alcohol precipitates)

- Immunity, Cell-mediated
Klesius, P. H.; Kramer, T. T.; and Frandsen, J. C., 1976, *Exper. Parasitol.*, v. 39 (1), 59-68
Eimeria stiedai, rabbits, detection of delayed hypersensitivity by skin testing with oocyst antigen extract, skin reactivity passively transferred with lymphocyte suspensions and cell-free transfer factor but not with serum from infected skin-reactive animals
- Immunity, Cell-mediated
Klesius, P. H.; and Kristensen, F., 1977, *Clin. Immunol. and Immunopathol.*, v. 7 (2), 240-252
transfer factor, characterization of biological activity by criteria of passive transfer of delayed hypersensitivity reactivity, lymphocyte stimulation, and protective effects against bovine and rabbit coccidiosis (*Eimeria bovis*, *Eimeria stiedae*)
- Immunity, Cell-mediated
Koga, M.; et al., 1976, *Japan. J. Vet. Sci.*, v. 38 (6), 611-618
Metastrongylus apri, thymectomized guinea pigs exposed to whole-body X-irradiation or anti-thymocyte serum, vaccination and challenge, results suggest important role for T-cells in defense mechanism
- Immunity, Cell-mediated
Komandarev, S.; et al., 1977, *Dokl. Bolgar. Akad. Nauk*, v. 30 (4), 567-569
Trichinella spiralis, rats (exper.), increase in peritoneal macrophages creates protection in subsequent infection by *Erysipelothrix rhusiopathiae*
- Immunity, Cell-mediated
Krahenbuhl, J. L.; Lambert, L. H., jr.; and Remington, J. S., 1976, *Immunology*, v. 31 (6), 837-846
mice injected with living or killed *Toxoplasma gondii* or with *Corynebacterium parvum*, effect on macrophage-mediated cytostasis of tumor target cells
- Immunity, Cell-mediated
Krahenbuhl, J. L.; and Remington, J. S., 1971, *Infect. and Immun.*, v. 4 (4), 337-343
Toxoplasma gondii-sensitized spleen cells in vitro in presence of specific antigen have capacity to activate or enhance microbicidal properties of normal peritoneal macrophages against *Listeria*
- Immunity, Cell-mediated
Krahenbuhl, J. L.; Rosenberg, L. T.; and Remington, J. S., 1973, *J. Immunol.*, v. 111 (4), 992-995
in vitro activation of macrophages to kill *Listeria monocytogenes* by *Toxoplasma gondii*-sensitized spleen cells incubated with *Toxoplasma* antigen, role of thymus-derived lymphocytes
- Immunity, Cell-mediated
Kreier, J. P., 1976, *Vet. Parasitol.*, v. 2 (1), 121-142
Plasmodium berghei, rats, mechanisms for implementation of immune response by humoral antibody and phagocytes, changes in cellular systems upon which development of immune response is dependent, review
- Immunity, Cell-mediated
Kress, Y.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 385-396
Trypanosoma cruzi, fate of phagocytized parasites in normal and BCG-activated mouse peritoneal macrophages previously labeled with thorium dioxide to permit lysosomal visualization, both activated and normal macrophages could control infections but activated cells could control significantly greater infection
- Immunity, Cell-mediated
Krick, J. A.; and Remington, J. S., 1975, *J. Infect. Dis.*, v. 131 (6), 665-672
mice infected with *Toxoplasma gondii* or *Besnoitia jellisoni*, significant resistance to mixed infections with nocardiosis, possible cell-mediated immunity
- Immunity, Cell-mediated
Kuhn, R. E.; and Vaughn, R. T., 1976, *Internat. J. Parasitol.*, v. 6 (2), 129-134
Trypanosoma cruzi, development of indirect assay suitable for studies on immune-mediated trypanosome destruction in vitro, application to complement-dependent antibody-mediated lysis, possible utility in lymphocyte-mediated cytotoxicity and in diagnosis
- Immunity, Cell-mediated
Kuttler, K. L.; and Adams, L. G., 1977, *Am. J. Vet. Research*, v. 38 (9), 1327-1330
Anaplasma marginale in splenectomized carrier calves, recrudescence infection resulted from dexamethasone treatment, serum and blood changes during and after treatment suggest blockage of cell-mediated immune system
- Immunity, Cell-mediated
Kwa, B. H.; and Liew, F. Y., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (3), 448-449 [Demonstration]
Taenia taeniaeformis in rats (exper.), cell-mediated immunity present but only about 50% protection
- Immunity, Cell-mediated
Kwa, B. H.; and Liew, F. Y., 1975, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 6 (4), 483-487
Taenia taeniaeformis, functional cell-mediated immunity demonstrated in rats (exper.) after infection with larvae, transfer of peritoneal cells from infected to non-infected rats conferred only partial protection
- Immunity, Cell-mediated
Kwa, B. H.; and Liew, F. Y., 1977, *J. Exper. Med.*, v. 146 (1), 118-131
Taenia taeniaeformis, rats, vaccination with somatic antigen and excretory antigen and with purified fractions of both, stimulation of immediate-type and delayed-type hypersensitivity reactions, highly significant protection against challenge infection

- Immunity, Cell-mediated
Larsh, J. E., jr.; and Weatherly, N. F., 1975, *Advances Parasitol.*, v. 13, 183-222
principles of delayed (cellular) hypersensitivity, cell-mediated immunity against parasitic worms, extensive review
- Immunity, Cell-mediated
Lawrence, J. A., 1977, *J. South African Vet. Ass.*, v. 48 (2), 77-83
Schistosoma mattheei, cattle (nat. and exper.), chronic hepatic syndrome, considered to be of immunological origin involving a cell-mediated immune response, usually after repeated heavy infestation: Rhodesia
- Immunity, Cell-mediated
Leal Medina, L. J., 1974, *Rev. Med. Vet. y Parasitol.*, Maracay, v. 25 (1-8), 1973-1974, 15-31
Trypanosoma lewisi, rats with and without cortisone, changes in ultrastructure of monocytes during infection; infection does not produce active macrophages or forms transitional between monocytes and macrophages
- Immunity, Cell-mediated
Lelchuk, R.; Cardoni, R. L.; and Fuks, A. S., 1977, *Clin. and Exper. Immunol.*, v. 30 (3), 434-438
Trypanosoma cruzi, human, nifurtimox-induced alterations in cell-mediated immunity, detected particularly using peripheral leukocyte migration inhibition
- Immunity, Cell-mediated
Lelchuk, R.; Patrucco, A.; and Manni, J. A., 1974, *J. Immunol.*, v. 112 (4), 1578-1581
Trypanosoma cruzi, cellular immunity in Chagas disease, effect of glutaraldehyde-treated specific antigen on inhibition of leukocyte migration
- Immunity, Cell-mediated
Le Viguelloux, J.; and Barabe, P., 1974, *Medecine Trop.*, v. 34 (5), 653-660
possible mechanisms of immunity in human *Plasmodium* and application to epidemiologic studies, review
- Immunity, Cell-mediated
Levin, D. M.; et al., 1976, *Infect. and Immun.*, v. 13 (1), 27-30
Trichinella spiralis, rat model, temporal development of antigen-reactive cells in Peyer's patches and other lymphoid tissues, cellular reactivity (lymphocyte blastogenesis) not evident in Peyer's patches during earliest stages of infection
- Immunity, Cell-mediated
Lewert, R. M., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 289-300
Schistosoma japonicum, humans, hypersensitivity, tolerance and immunopathology, current aspects, speculations
- Immunity, Cell-mediated
Liburd, E. M.; Armstrong, W. D.; and Mahrt, J. L., 1973, *Cellular Immunol.*, v. 7 (3), 444-452
Eimeria nieschulzi in rats, investigation of normal immune response and of adoptive immunity with primed thoracic duct lymphocytes
- Immunity, Cell-mediated
Liburd, E. M.; Pabst, H. F.; and Armstrong, W. D., 1972, *Cellular Immunol.*, v. 5 (3), 487-489
Eimeria nieschulzi in rats as an animal model for evaluation of dialyzable transfer factor, partial but significant immunity induced by injection of transfer factor from immune syngeneic animals
- Immunity, Cell-mediated
von Lichtenberg, F.; Sher, A.; and McIntyre, S., 1977, *Am. J. Path.* (419), v. 87 (1), 105-124
Schistosoma mansoni schistosomula, mice as experimental hosts for analyzing dynamics of cellular and humoral processes in lung, immunologic relationships to host resistance
- Immunity, Cell-mediated
Lindberg, R. E.; and Frenkel, J. K., 1977, *Infect. and Immun.*, v. 15 (3), 855-862
Toxoplasma gondii and *Besnoitia jellisoni* in vitro in hamster peritoneal exudate cells, antigenic stimulation of peritoneal cells and expression of immunity, inhibition of parasite growth by peritoneal macrophages armed either specifically or nonspecifically, expression of immunity by cells derived from hamsters treated with cortisol, effects of cortisol on (1) immune and non-immune lymphocytes, (2) arming of macrophages by lymphocytes, (3) the ability of peritoneal macrophages to destroy antibody-treated parasites
- Immunity, Cell-mediated
Lindberg, R. E.; and Frenkel, J. K., 1977, *J. Parasitol.*, v. 63 (2), 219-221
Toxoplasma gondii in nude mice, failure to develop immunity during 3 weeks of sulfadiazine therapy while hirsute littermates developed immunity during this period, intraperitoneal injection of thymus cells from hirsute littermates enabled nude mice to develop immunity during drug prophylaxis but bone marrow cells or high-titered specific antibody did not prolong survival after sulfadiazine was discontinued, immunity appears dependent upon active cellular immunity with role of antibody uncertain
- Immunity, Cell-mediated
Liston, A. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 6 [Demonstration]
Trypanosoma cruzi, *T. dionisii*, *T. vesperilionis*, cell mediated immune responses in mice, some cross-reactivity of antigens but homologous responses stronger
- Immunity, Cell-mediated
Ljungstroem, I.; and Huldtt, G., 1977, *Acta Path. et Microbiol. Scand.*, v. 85C (2), 131-141
Trichinella spiralis, mice, humoral and cellular immune responses to unrelated antigens at different stages of infection, humoral response depressed during short period of infection but depression of cell mediated response is more severe and longer lasting

- Immunity, Cell-mediated
 Long, P. L.; and Rose, M. E., 1976, Ztschr. Parasitenk., v. 48 (3-4), 291-294
Eimeria tenella, limited in vitro growth in macrophages from chicken peritoneal exudates, trophozoites and first generation schizonts developed; possible means for study of cellular immune responses
- Immunity, Cell-mediated
 Longstaffe, J. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 150 [Abstract]
Trypanosoma b. *brucei*-infected guinea pigs, immunodepression in trypanosomiasis, attempts to characterize response of thymus-dependent lymphocytes
- Immunity, Cell-mediated
 Longstaffe, J. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 273-274 [Abstract]
 trypanosomes, effects on cultured mouse spleen macrophages, occurrence of both activation and dilution of cells
- Immunity, Cell-mediated
 Love, R. J.; Ogilvie, B. M.; and McLaren, D. J., 1976, Immunology, v. 30 (1), 7-15
Trichinella spiralis, duration of infections in rats (young, adult, and lactating), rapidity of expulsion from previously infected rats, transfer of immunity with antiserum and lymph node cells, ultrastructural signs of antibody damage to worms, results suggest that mechanism of immune expulsion requires both antibody and cells, comparison with *Nippostrongylus brasiliensis*
- Immunity, Cell-mediated
 Mackaness, G. B., 1977, Advances Exper. Med. and Biol., v. 93, 65-73
 cellular immunity and parasites, review: nature of cell-mediated immunity (CMI), identifying important antigens, how to induce CMI, regulation of T-cell activity, importance of vigorous T-cell response, criteria by which to judge the importance of CMI in host resistance in infection
- Immunity, Cell-mediated
 Maddison, S. E.; Hicklin, M. D.; and Kagan, I. G., 1976, Exper. Parasitol., v. 39 (1), 29-39
Schistosoma mansoni, *Macaca mulatta*, delayed hypersensitivity and reduction in clinical manifestations and in worm burdens conferred by serum and transfer factor from immune or normal rhesus monkeys, results suggest intimate interaction between cellular and humoral immune mechanisms in this host-parasite model
- Immunity, Cell-mediated
 Mahmoud, A. A. F.; et al., 1975, J. Immunol., v. 114 (1, Pt. 2), 279-283
Schistosoma mansoni, mice, niridazole at low doses suppressed granuloma formation around eggs and inhibited delayed footpad swelling in mice previously sensitized with eggs
- Immunity, Cell-mediated
 Mahmoud, A. A. F.; Strickland, G. T.; and Warren, K. S., 1977, J. Infect. Dis., v. 135 (3), 408-413
 possible toxoplasmosis induced immunosuppression of cell-mediated immune response in *Schistosoma mansoni*-infected mice (exper.), mice with combined infections showed smaller hepatic granulomas and lower mean portal pressures than those with only schistosomal infections
- Immunity, Cell-mediated
 Mahmoud, A. A. F.; and Warren, K. S., 1974, J. Immunol., v. 112 (1), 222-228
Schistosoma mansoni, mice, anti-inflammatory effects of tartar emetic and niridazole, suppression of schistosome egg granuloma
- Immunity, Cell-mediated
 Mansfield, J. M.; Craig, S. A.; and Stelzer, G. T., 1976, Infect. and Immun., v. 14 (4), 976-981
Trypanosoma brucei, *T. congolense*, mitogenic effects of trypanosome extracts in vitro for lymphocytes from normal rabbits, possible relationship to immunological dysfunctions occurring in chronic African trypanosomiasis
- Immunity, Cell-mediated
 Mansfield, J. M.; and Kreier, J. P., 1972, Infect. and Immun., v. 6 (1), 62-67
Trypanosoma congolense, rabbits (exper.), Arthus-type immediate hypersensitivity reactions demonstrated, no cell-mediated hypersensitivity reactions observed, role of immediate-type skin reaction in pathology of infection and possible use in diagnosis
- Immunity, Cell-mediated
 Mael, J.; and Behin, R., 1974, Transplant. Rev., v. 19, 121-146
 cell-mediated and humoral immunity to protozoan infections (leishmaniasis, malaria, trypanosomiasis), review
- Immunity, Cell-mediated
 Mazaud, R.; Pelloux, H.; and Ferrus, R., 1974, Medecine Trop., v. 34 (1), 7-24
Brugia malayi, *Fasciola hepatica*, humans, cardiovascular complications resulting from cell-mediated immunity
- Immunity, Cell-mediated
 Meerovitch, E.; and Ackerman, S. J., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (5), 417 [Letter]
 pre-existing *Trichinella spiralis* infection in rats (exper.) greatly reduced by level of *Trypanosoma lewisi* parasitemia, possible cell-mediated immune reaction
- Immunity, Cell-mediated
 Molinari, J. A.; Cypess, R. H.; and Appel, B. N., 1975, Internat. Arch. Allergy and Applied Immunol., v. 48 (6), 776-783
Trichinella spiralis- and/or BCG-infected mice, histopathologic changes in thymus, possible relation to functional alterations of immune system

- Immunity, Cell-mediated
Molinari, J. A.; and Ebersole, J. L., 1976, Abst. Ann. Meet. Am. Soc. Microbiol., 84
Trichinella spiralis, mice, nematode induced potentiation of delayed hypersensitivity, induces stimulation of host anti-neoplastic activity
- Immunity, Cell-mediated
Molinari, J. A.; and Ebersole, J. L., 1977, Internat. Arch. Allergy and Applied Immunol., v. 55 (1-6), 444-448
Trichinella spiralis, mice, antineoplastic effects of long-term infection on B-16 melanoma, apparently related to potentiation of cellular immune response
- Immunity, Cell-mediated
Molinari, J. A.; and Ebersole, J. L., 1977, Internat. Arch. Allergy and Applied Immunol., v. 55 (1-6), 449-457
Trichinella spiralis-induced immunopotential effects of delayed-type hypersensitivity reactions to BCG, in vitro responses of spleen cells from infected mice
- Immunity, Cell-mediated
Montufar, O. M. B.; et al., 1977, J. Clin. Microbiol., v. 5 (4), 401-404
Trypanosoma cruzi, chronic infections in humans, comprehensive assessment of cellular immunity in vivo and in vitro, concluded that chronic infection not associated with deficiency in cellular immunity and does not lead to it
- Immunity, Cell-mediated
Moore, D. L.; Heyworth, B.; and Brown, J., 1974, Clin. and Exper. Immunol., v. 17 (4), 647-656
phytohaemagglutinin-induced lymphocyte transformation in leucocyte cultures from malarious, malnourished, and control Gambian children, some depression of response to low doses of PHA in children with malaria
- Immunity, Cell-mediated
Muhammed, S. I.; Lauerman, L. H., jr; and Johnson, L. W., 1975, Am. J. Vet. Research, v. 36 (4), Part 1, 399-402
Theileria parva, cattle experimentally infected with standardized suspensions of infected Rhipicephalus appendiculatus, treatment with immune serum or concentrated immune globulins, no effect on establishment of infection nor clinical and hematologic changes, immunity seen in cattle recovered from East Coast fever is therefore probably cell-mediated
- Immunity, Cell-mediated
Muhammed, S. I.; Wagner, G. G.; and Lauerman, L. H., jr., 1974, Immunology, v. 27 (6), 1033-1037
Theileria parva, cattle, leucocyte migration inhibition as model for demonstration of sensitized cells in East Coast fever
- Immunity, Cell-mediated
Ngu, J. L.; and Blackett, K., 1976, Trop. and Geogr. Med., v. 28 (2), 111-120
Onchocerc[a] volvulus in humans, immunologic studies attempting to delineate role of humoral and cellular immune responses in the heterogeneity of onchocercal lesions
- Immunity, Cell-mediated
Ngwenya, B. Z., 1976, Cellular Immunol., v. 24 (1), 116-122
Trichinella spiralis, effect of lactation on cell-mediated immunity, cell transfer studies with lactating and non-lactating mice, lactogenic hormones apparently suppressed expression of adoptive immunity
- Immunity, Cell-mediated
Niederhorn, J. Y., 1977, J. Parasitol., v. 63 (6), 1130-1132
Mesocostoides corti, mice, adoptive transfer of protective immunity against tetrahyridia by spleen cells, indicates possible role of cell-mediated immunity
- Immunity, Cell-mediated
Nogueira, N.; Gordon, S.; and Cohn, Z., 1977, J. Exper. Med., v. 146 (1), 157-171
Trypanosoma cruzi, mice, modification of macrophage function during infection, microbicidal activity against trypomastigotes, other parameters of macrophage activation (secretion of plasminogen activator and phagocytosis mediated by C3 receptor)
- Immunity, Cell-mediated
Nogueira, N.; Gordon, S.; and Cohn, Z., 1977, J. Exper. Med., v. 146 (1), 172-183
normal unstimulated macrophages can be activated in vitro by lymphocyte product(s) derived from interaction of sensitized peritoneal or spleen cells with Trypanosoma cruzi antigen, activation is expressed as secretion of high levels of macrophage plasminogen activator and requires thymus-derived lymphocytes
- Immunity, Cell-mediated
Novak, M., 1977, J. Parasitol., v. 63 (3), 587-588
Mesocostoides corti, mice, transfer of immunity against tetrathyridia by sensitized spleen cells
- Immunity, Cell-mediated
Oberlin, U. P.; and Weiss, N., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, part 1), 1178-1182
Schistosoma mansoni, hamsters (exper.), cell-mediated immune response to soluble egg antigens (SEA) determined by measuring size of granuloma formations in vivo and lymphocyte transformation reaction in vitro; humoral immune response estimated by measuring anti-SEA antibody titer in serum
- Immunity, Cell-mediated
Ogilvie, B. M.; et al., 1977, Immunology, v. 32 (4), 521-528
Nippostrongylus brasiliensis, rats, cellular requirement for worm expulsion, results suggest that following antibody damage this nematode is expelled by nonimmunoglobulin-bearing lymphocytes which are effective in the absence of newly formed cells derived from the cell recipients
- Immunity, Cell-mediated
Ogilvie, B. M.; and Love, R. J., 1974, Transplant. Rev., v. 19, 147-169
immune mechanisms in Nippostrongylus brasiliensis-rat model, co-operation between antibodies and cells in immune expulsion, review

- Immunity, Cell-mediated
Opuni, E. K.; and Muller, R. L., 1975, *J. Helminth.*, v. 49 (3), 199-204
Spirometra theileri, mice, attempted immunization with 3 procedures (antigen plus adjuvant, antigen alone, active infection), none conferred absolute immunity but gave some protection, serological and histological findings indicate involvement of both cellular and humoral elements
- Immunity, Cell-mediated
Ortiz-Ortiz, L.; et al., 1975, *Clin. Immunol. and Immunopathol.*, v. 4 (1), 127-134
patients with amebic abscess of liver, diminished cell-mediated immunity to Entamoeba histolytica antigens when tested by skin tests and for migration-inhibition factor production, skin reactions to unrelated antigens were normal, 10 days after hospital discharge cell-mediated immune responses to E. histolytica antigen were normal, antibodies were present in sera at all stages
- Immunity, Cell-mediated
Ortiz-Ortiz, L.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (2), 232-242
Trypanosoma cruzi-infected mice, development of nonspecific resistance to challenge with Listeria monocytogenes, association with increased mononuclear phagocytic activity
- Immunity, Cell-mediated
Ottesen, E. A.; Smith, T. K.; and Kirkpatrick, C. H., 1975, *Internat. Arch. Allergy and Applied Immunol.*, v. 49 (3), 396-410
Trichinella spiralis, mice, chronic infection, cellular immune responsiveness, sequential development of antigen-reactive cells in various lymphoid cell populations, antibody responses (haemagglutination titers, homocytotropic antibody)
- Immunity, Cell-mediated
Ottesen, E. A.; Weller, P. F.; and Heck, L., 1977, *Immunology*, v. 33 (3), 413-421
Wuchereria bancrofti, human, antigen-specific cellular immune unresponsiveness, unchanged 2 weeks after diethylcarbamazine treatment, this immunologic deficit may be of fundamental importance in pathogenesis of filarial disease: Mauke, Cook Islands
- Immunity, Cell-mediated
Ourth, D. D.; Lunde, M. N.; and Watson, R. R., 1976, *Ztschr. Immunitaetsforsch.*, v. 151 (3), 254-262
Toxoplasma gondii, guinea pigs, demonstration of delayed hypersensitivity by macrophage migration inhibition, skin-testing, and lymphocyte transformation
- Immunity, Cell-mediated
Owor, R.; and Wamukota, W. M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 497-499
Strongyloides stercoralis in man, fatal overwhelming strongyloidiasis associated with pyogenic meningitis and presence of larvae in meninges, probably depression of cellular immunity (unknown cause) contributed to fatal infection: Uganda
- Immunity, Cell-mediated
Parashar, A.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (6), 474-480
Plasmodium berghei, mice, passive transfer experiments confirm that protection against infection involves both humoral and cellular immune reactions and response to 'processed antigen' produced by sensitized cells, possibly macrophages
- Immunity, Cell-mediated
Pelley, R. P.; Ruffier, J. J.; and Warren, K. S., 1976, *Infect. and Immun.*, v. 13 (4), 1176-1183
Schistosoma mansoni, mice, suppressive effect of infection at various time periods on in vitro responses of spleen and lymph node cells to T cell mitogens (phytohemagglutinin and concanavalin A), findings consistent with existence of suppressor T cells in chronic schistosomiasis, possible role in spontaneous modulation of immunopathology
- Immunity, Cell-mediated
Pelster, B., 1975, *Ztschr. Parasitenk.*, v. 48 (2), 95-110
Toxoplasma gondii, immunized mice, superinfection not causing death, cellular immune reactions, mouse exudate containing high percentage of lymphocytes; peritoneal exudate cells incubated in vitro with trophozoites cause their death by lysis
- Immunity, Cell-mediated
Pelster, B.; Piekarski, G.; and Suzuki, N., 1976, *Ztschr. Parasitenk.*, v. 49 (2), 113-125
Toxoplasma gondii, mice, virulent and avirulent strains, histopathological changes in thymus
- Immunity, Cell-mediated
Perez, M.; Carson, C. A.; and Ristic, M., 1977, *Vet. Parasitol.*, v. 3 (2), 161-167
Babesia microti, hamsters, cell-mediated immune response measured by leukocyte migration inhibition test, comparison with humoral antibody measurements using indirect fluorescent antibody test
- Immunity, Cell-mediated
Phillips, S. M.; et al., 1977, *J. Immunol.*, v. 118 (2), 594-599
Schistosoma mansoni in congenitally athymic (nude) mice, thymic dependency of eosinophilia, granuloma formation, and host morbidity
- Immunity, Cell-mediated
Phillips, S. M.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 48-53
Schistosoma mansoni, rats, cellular and humoral immune response, review of work with interpretations, workshop report
- Immunity, Cell-mediated
Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, *Immunology*, v. 32 (5), 681-687
Plasmodium spp., Babesia microti, mouse helper T-cell response to parasites measured by using them as carriers for a standard hapten, results show extensive cross-reaction between the 4 parasites as carriers apparently unrelated to known serological cross-reactions but are against the idea that helper T-cells are exclusively responsible for resistance

- Immunity, Cell-mediated
Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 182-193
Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection
- Immunity, Cell-mediated
Portaro, J. K.; et al., 1977, *J. Parasitol.*, v. 63 (1), 172-174
differential response of Brugia pahangi-sensitized splenocytes to antigens from Brugia pahangi, Dirofilaria immitis, and Trichinella spiralis, possible diagnostic use
- Immunity, Cell-mediated
Portaro, J. K.; Britton, S.; and Ash, L. R., 1976, *Exper. Parasitol.*, v. 40 (3), 438-446
Brugia pahangi in Meriones unguiculatus, depressed reactivity of splenocytes to mitogens phytohemagglutinin and concanavalin A, data suggest this depression is cell-mediated
- Immunity, Cell-mediated
Portaro, J. K.; Kowalski, J. C.; and Ash, L. R., 1977, *Exper. Parasitol.*, v. 43 (1), 122-127
adaptation of Meriones unguiculatus lymphocytes to an in vitro microassay system, use in study of cellular immune function with mitogens, mitogen reactivity decreased with jird age and was depressed by infection with Brugia pahangi
- Immunity, Cell-mediated
Pouliot, P.; Viens, P.; and Targett, G. A. T., 1977, *Clin. and Exper. Immunol.*, v. 27 (3), 507-511
Trypanosoma musculi, transfer of spleen cells to T cell-deprived mice restored their ability to control infection, treatment of cells in vitro with anti- θ serum did not impair their ability to restore immunocompetence
- Immunity, Cell-mediated
Poulter, L. W., 1976, *Cellular Immunol.*, v. 27 (1), 17-25
Leishmania enriettii, guinea pigs, effect of lymphokine contact in vitro on level of glucose oxidation and migrating ability of macrophages taken from animals during infection and after re-infection, relation to role of macrophages in recovery from infection and subsequent immunity
- Immunity, Cell-mediated
Preston, P. M.; Dumonde, D. C., 1976, *Clin. and Exper. Immunol.*, v. 23 (1), 126-138
Leishmania tropica in CBA mice as experimental model of leishmaniasis in man: relationship of inoculum dose to size and duration of lesions, antibody production, and delayed hypersensitivity responses; infections manifest both during and after healing stages; immunization with sonicated promastigotes; lymphoid cells from immune mice conferred protection upon recipients
- Immunity, Cell-mediated
Purvis, A. C., 1977, *Parasitology*, v. 75 (2), 197-205
Babesia microti, mice, temporary immunodepression of humoral immune response to sheep red blood cells, cell-mediated responses apparently unaffected, phagocytic activity is increased
- Immunity, Cell-mediated
Ramalho-Pinto, F. J.; et al., 1976, *Clin. and Exper. Immunol.*, v. 26 (2), 327-333
Schistosoma mansoni, carrier effect used to assay 11 antigenic preparations for helper T-cell priming against surface components of schistosomula, mice
- Immunity, Cell-mediated
Rank, R. G.; Roberts, D. W.; and Weidanz, W. P., 1977, *Infect. and Immun.*, v. 16 (2), 715-716
Trypanosoma musculi in congenitally athymic nude mice, chronic infection with consistently elevated parasitemia, thymic reconstitution restores immunity
- Immunity, Cell-mediated
Rau, M. E.; and Tanner, C. E., 1976, *Internat. J. Parasitol.*, v. 6 (3), 195-198
Echinococcus multilocularis in Sigmodon hispidus, protoscolicidal activity of peritoneal cells and sera from hosts bearing large hydatid cysts, results suggest that phenomenon whereby established cysts suppress challenging inocula has an immunological component in which both humoral and cellular responses may participate
- Immunity, Cell-mediated
Reisen, W. K.; and Hillis, T. C., 1975, *J. Parasitol.*, v. 61 (5), 937-940
Plasmodium berghei, failure to protect mice with footpad injections of killed parasites incorporated in complete Freund's adjuvant, possible explanations for failure to immunize
- Immunity, Cell-mediated
Remington, J. S.; Krahenbuhl, J. L.; and Nendehall, J. W., 1972, *Infect. and Immun.*, v. 6 (5), 829-834
activated macrophages from mice which were chronically infected with Toxoplasma gondii or Besnoitia jellisoni or which had received Freund complete adjuvant had enhanced capacity to kill intracellular Toxoplasma
- Immunity, Cell-mediated
Richharia, V. S.; Jeska, E. L.; and Greve, J. H., 1975, *J. Parasitol.*, v. 61 (6), 1113-1115
Ascaris suum, swine (exper.), demonstration of true delayed hypersensitivity responses
- Immunity, Cell-mediated
Rickard, M. D.; and Katiyar, J. C., 1976, *Parasitology*, v. 72 (3), 269-279
Taenia pisiformis, partial purification of antigens collected during in vitro cultivation, differential performance in intradermal skin test and rabbit immunization tests suggests that protective antigens and those provoking cell-mediated reactions may be different ones

Immunity, Cell-mediated

Ristic, M., 1976, *Vet. Parasitol.*, v. 2 (1), 31-47

intracellular blood protista: intraerythrocytic behavior, transfer, and circulatory clearance; survival and development within macrophages; persistence of organism in immunologically hostile host; immune responses and protection; serodiagnosis; vaccination

Immunity, Cell-mediated

Ristic, M.; and Carson, C. A., 1977, *Advances Exper. Med. and Biol.*, v. 93, 151-188

bovine anaplasmosis, immunoprophylaxis, review: *Anaplasma marginale*, biologic properties, antigenic and serologic studies, persistence in immunologically hostile host, various immunogens, immune responses to inactivated *A. marginale* vaccines, immune response to live attenuated and virulent *A. marginale*, vaccination studies with attenuated *A. marginale*, proposed mechanism of protection induced by this vaccine, statistical analysis, application for prevention of anaplasmosis

Immunity, Cell-mediated

Ristic, M.; and Nyindo, M. B. A., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 66-70

Anaplasma marginale, cows inoculated with attenuated vaccine, humoral (complement fixing and agglutinating antibodies) and cell-mediated (macrophage migration inhibition test) immune responses, results demonstrate correlation between cell-mediated immunity and protection

Immunity, Cell-mediated

Roberson, E. L.; and Hanson, W. L., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 338 [Letter]

Trypanosoma cruzi-infected rats (exper.), passive transfer of immunity using spleen cells from sensitized donors evidenced by significantly lower parasitemia and reduced mortalities

Immunity, Cell-mediated

Roberts, C. O.; Chaparas, S. D.; and McLaughlin, D., 1976, *Tr. Am. Micr. Soc.*, v. 95 (3), 470-482

Toxoplasma gondii, plaque assay technique used to (1) select best tissue culture system for studying progress of infection, (2) assess effect of drugs and antibiotics, (3) observe effect of immune sera on tissue culture infection, and (4) investigate cellular hypersensitivity by in vivo and in vitro systems

Immunity, Cell-mediated

Rogers, R.; et al., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (1), 77-84

Brugia pahangi, cats, histological changes in lymph nodes characteristic of cell-mediated and antibody-type immunological responses

Immunity, Cell-mediated

Rose, M. E., 1977, *Exper. Parasitol.*, v. 42 (1), 129-141

Eimeria tenella, chickens injected in wattle with different antigens, skin hypersensitivity measured at intervals throughout immunization by infection and also after injection of antigens in Freund's complete adjuvant, attempted transfer of skin hypersensitivity with serum or cells, correlation of skin hypersensitivity with in vitro tests

Immunity, Cell-mediated

Ruitenbergh, E. J., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 319 [Abstract]

Trichinella spiralis-infected nude mice, failure of infections to induce gut mast cell response; both gut and blood eosinophils increased during infection, the phenomenon being T-cell dependent

Immunity, Cell-mediated

Ruitenbergh, E. J.; et al., 1977, *Immunology*, v. 33 (4), 581-587

Trichinella spiralis, comparison of infection in congenitally athymic (nude) mice and their heterozygous thymus-bearing littermates: expulsion of adult worms; yield of muscle larvae; production of specific antibodies; number of pyroninophilic cells, intra-epithelial lymphocytes, and eosinophils in small intestine; blood eosinophilia; data support thymus dependence of worm expulsion, plasma cell and antibody production, and tissue and blood eosinophilia

Immunity, Cell-mediated

Ruitenbergh, E. J.; and Elgersma, A., 1976, *Nature* (5583), v. 264, 258-260

Trichinella spiralis, congenitally athymic mice, absence of intestinal mast cell response, results indicate T-cell dependence of host protection

Immunity, Cell-mediated

Ryning, F. W.; and Remington, J. S., 1977, *Infect. and Immun.*, v. 18 (3), 746-753

Toxoplasma gondii, role for activated macrophage as effector in resistance of lung to infection

Immunity, Cell-mediated

Saunders, E. B., 1977, *Vet. Med. and Small Animal Clin.*, v. 72 (5), 879-881

hyposensitization of animals with immediate and delayed hypersensitivity to flea bites

Immunity, Cell-mediated

Schenkel, R. H.; et al., 1975, *J. Parasitol.*, v. 61 (3), 549-550

Plasmodium knowlesi, rhesus monkeys, immunization with lyophilized antigen plus Adjuvant 65 and BCG afforded same protection as antigen plus Freund's Complete Adjuvant, results suggest important role for cell-mediated immunity in vaccine-induced protection against malaria

- Immunity, Cell-mediated
Schmunis, G. A.; et al., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 81-85
Trypanosoma cruzi, mice inoculated with epimastigotes or trypomastigotes, development of cell mediated immunity as shown by inhibition of macrophage migration
- Immunity, Cell-mediated
Seah, S. K. K.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 63-69
Trypanosoma cruzi, acute infection in exper. rhesus monkeys, vaccination with killed extract of cultural forms produced circulating antibodies and induced delayed hypersensitivity but monkeys still developed sustained parasitemia, changes in IgM and other hematologic responses
- Immunity, Cell-mediated
Seitz, H. M., 1976, Tropenmed. u. Parasitol., v. 27 (2), 197-201
Plasmodium berghei infections in neonatally thymectomized mice showed same infection patterns as normal infected mice; cell transfer experiments were unsuccessful in transferring immunity from immune to non-immune animals by transfer of lymphoid cells but acquired immunity destroyed by irradiation could be restored by injection of immune spleen and lymphnode cells
- Immunity, Cell-mediated
Sethi, K. K.; et al., 1975, J. Immunol., v. 115 (4), 1151-1158
Toxoplasma gondii, immunity induced in vitro in non-immune mouse macrophages with specifically immune lymphocytes
- Immunity, Cell-mediated
Sharma, J. K.; Anaraki, F.; and Ala, F., 1977, Scand. J. Immunol., v. 6 (11), 1101-1106
in vitro lymphoblast transformation of unsensitized lymphocytes to Leishmania major antigen in presence of leishmania-specific and -non-specific transfer factor, results clearly substantiate in vitro specificity of transfer factor
- Immunity, Cell-mediated
Sheahan, B. J., 1975, J. Comp. Path., v. 85 (1), 97-110
Sarcoptes scabiei, iron-treated vs. iron-deprived pigs (exper.), histological, histochemical, and ultrastructural changes at skin sites, immediate and delayed hypersensitivity reactions
- Immunity, Cell-mediated
Sher, A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 20-28
Schistosoma mansoni, mice, effector mechanism of acquired resistance is manifestation of antibody-dependent cell-mediated immunity, workshop report
- Immunity, Cell-mediated
Sher, A.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 909-916
Schistosoma mansoni, presence of eosinophil-dependent cytotoxic antibodies (EDCA) in human serum, attempted correlation of levels of EDCA activity with intensity and duration of schistosome infections and with lymphocyte blastogenic response to soluble schistosome antigens
- Immunity, Cell-mediated
Shirahata, T.; Shimizu, K.; and Suzuki, N., 1975, Japan. J. Vet. Sc., Tokyo, v. 37 (3), 235-243
Toxoplasma gondii, in vitro, lymphocyte-mediated immunity, results suggest resistance to and microbicidal activity upon Toxoplasma parasites may be conferred to macrophages by culture supernatant from immune lymphocytes reacting with Toxoplasma antigen
- Immunity, Cell-mediated
Shirahata, T.; Shimizu, K.; and Suzuki, N., 1976, Ztschr. Parasitenk., v. 49 (1), 11-23
Toxoplasma, effects of immune lymphocyte products and serum antibody on parasite multiplication in murine peritoneal macrophages
- Immunity, Cell-mediated
Singh, D. K.; Jagdish, S.; and Gautam, O. P., 1977, Research Vet. Sc., v. 23 (3), 391-392
Theileria annulata, cattle, cell-mediated immunity demonstrated using leucocyte migration inhibition test and delayed skin hypersensitivity reaction
- Immunity, Cell-mediated
Sless, F.; et al., 1975, J. Protozool., v. 22 (3), 56A-57A [Abstract]
Trypanosoma brucei, mice treated with cyclophosphamide 2 days after infection developed high non-relapsing parasitaemia, mice treated 3 days before infection developed significantly lower parasitaemia than controls apparently due to increase in delayed hypersensitivity
- Immunity, Cell-mediated
Smith, M. D., 1977, Parasitology, v. 75 (1), 119-123
Schistosoma mansoni, mice, ultrastructural development of schistosome egg granuloma, delayed hypersensitivity response predominates during early stages but as the infection proceeds circulating antibody appears and granulomatous response is mediated by immune-complex reaction possibly of Arthus type
- Immunity, Cell-mediated
Smrkovski, L. L.; and Larson, C. L., 1977, Infect. and Immun., v. 16 (1), 249-257
Leishmania donovani, BALB/c mice, BCG immunization, prophylactic and therapeutic effect, influence of timing and of route of injection
- Immunity, Cell-mediated
Smrkovski, L. L.; and Larson, C. L., 1977, Infect. and Immun., v. 18 (2), 561-562
Leishmania donovani, antigenic cross-reactivity with Mycobacterium bovis demonstrated using delayed hypersensitivity as a criterion

- Immunity, Cell-mediated
Solomon, G. B.; and Grigonis, G. J., jr., 1976, *Exper. Parasitol.*, v. 40 (2), 298-307
Capillaria hepatica, changes in egg shell structure following collection of eggs by physical methods or after passage through mouse gastrointestinal tract, relationship to origin and release of antigens contributing to immunological response during granuloma formation; hypothesis concerning exper. egg granuloma formation, maintenance of homeostasis of eggs in situ, and possible modes of action which trigger development
- Immunity, Cell-mediated
Souza, M. do C.; et al., 1974, *J. Protozool.*, v. 21 (4), 579-584
living culture forms of *Leptomonas pessoai* cross-protected mice against *Trypanosoma cruzi* challenge infection, circulating antibodies detected in immunized mice by immunodiffusion, passive haemagglutination, complement fixation, and antibody binding assay which cross-reacted with *T. cruzi* extracts, cellular immune response indicated by leucocyte migration inhibition
- Immunity, Cell-mediated
Spitalny, G. L.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 73-81
Plasmodium berghei, mice, effect of T cell deprivation on sporozoite immunization, eliminated or reduced capacity to develop protection, sporozoite-neutralizing activity, or circumsporozoite antibodies, capacity fully restored by giving thymocytes prior to immunization, data demonstrate T cell dependence of sporozoite-induced immunity
- Immunity, Cell-mediated
Stadtsbaeder, S.; and Nguyen, B. T., 1977, *Ann. Immunol.*, v. 128C (1-2), 149-150
Toxoplasma gondii, susceptibility of nude mice to infection was same as controls, vaccination of nude mice conferred incomplete immunity
- Immunity, Cell-mediated
Stadtsbaeder, S.; Nguyen, B. T.; and Calvin-Preval, M. C., 1975, *Ann. Immunol.*, v. 126C (4), 461-474
Toxoplasma gondii, mice, immunization with living parasites concomitant to cotrimoxazol treatment, phagocytosis/penetration and intracellular multiplication of *Toxoplasma* in normal or immune macrophages in the absence or presence of specific antibodies
- Immunity, Cell-mediated
Stahl, W.; et al., 1976, *Exper. Parasitol.*, v. 39 (1), 135-142
Toxoplasma gondii, disease patterns in methotrexate-treated mice, examination of several time- and dose-dependent drug regimes, immunosuppressive effect when administered early in infection, potential use as experimental model for clinical toxoplasmosis
- Immunity, Cell-mediated
Styles, T. J.; et al., 1974, *J. Protozool.*, v. 21 (3), 422 [Abstract]
Trypanosoma lewisi, rats, results tend to indicate that T cells and their products are not of major significance in immune response
- Immunity, Cell-mediated
Subrahmanyam, D.; et al., 1976, *Nature, London* (5551), v. 260, 529-530
Litomosoides carinii, mechanism of leukocyte adhesion in vitro, mediated by serum factor, accompanied by cytotoxic effect on microfilariae, results implicate both humoral and cellular factors in destruction of microfilariae
- Immunity, Cell-mediated
Szarfman, A.; et al., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 333-341
Trypanosoma cruzi-infected mice (exper.), effect of previous inoculation by epimastigotes of *Trypanosoma cruzi* upon the resistance of mice against challenge with trypomastigotes; survival rate and parasitemia dependent on previous number of epimastigotes inoculated and on number of trypomastigotes used for challenge; evidence suggests that cell-mediated anamnestic response may be triggered by reinfection
- Immunity, Cell-mediated
Takahashi, K.; Yamashita, S.; and Shimizu, Y., 1975, *Japan. J. Vet. Sc.*, Tokyo, v. 37 (5), 295-301
Theileria sergenti, cattle, indirect fluorescent antibody test; relationship of varying antibody titer to course of infection and clinical signs; severe infection in splenectomized calves with no antibody developed; resistance to challenge infection in previously infected calves; recrudescence of infection in calves given corticosteroids; possible humoral factor in immune mechanism and cell-mediated immunity relationship to relapse
- Immunity, Cell-mediated
Takayanagi, T.; and Nakatake, Y., 1976, *Exper. Parasitol.*, v. 39 (2), 234-243
Trypanosoma gambiense, mice, immunologic responses to infection in thymectomized lethally-irradiated recipients of passively transferred thymic cells sensitized with parasitic antigens in vivo, enhanced agglutinin production and protection and phagocytosis
- Immunity, Cell-mediated
Tanaka, H.; et al., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (1), 19-26
Litomosoides carinii in *Sigmodon hispidus* (exper.), suppression of microfilaricidal activity of diethylcarbamazine by anti-lymphocyte and anti-thymocyte serum establishes role of lymphocytes in mechanism of drug action
- Immunity, Cell-mediated
Taylor, M. M.; and Turton, J. A., 1976, *Tropenmed. u. Parasitol.*, v. 27 (1), 89-92
Necator americanus, cell-mediated immunity in man demonstrated by antigen-induced lymphocyte blastogenesis

Immunity, Cell-mediated

Teixeira, A. R. L., 1977, *Advances Exper. Med. and Biol.*, v. 93, 243-280

Trypanosoma cruzi, immunoprophylaxis, review: life cycle in vector and host; clinical manifestations of Chagas' disease; mechanisms of resistance (natural and acquired immunity, humoral and cell-mediated); autoimmunity; antigenic structure; live vaccines; dead vaccines; perspectives for further studies

Immunity, Cell-mediated

Teixeira, A. R. L.; and Santos-Buch, C. A., 1975, *Immunology*, v. 28 (3), 401-410

Trypanosoma cruzi, rabbits, strong delayed hypersensitivity skin reactions to 2 subcellular fractions from homogenates of suspensions of trypomastigote and amastigote forms, immediate reactions also seen, cell-mediated immunity assayed by experiments which established passive transfer, inhibition of blood mononuclear cell migration, and blast transformation by sensitized lymphocytes

Immunity, Cell-mediated

Vattuone, N. H.; et al., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 267-272

Trypanosoma cruzi, mice infected with epimastigotes or trypomastigotes of 3 different strains, cell mediated and humoral immune responses, characterization of antibodies according to criterion of 2-mercaptoethanol sensitivity

Immunity, Cell-mediated

de la Vega, M. T.; Damilano, G.; and Diez, C., 1976, *J. Parasitol.*, v. 62 (1), 129-130

chronic *Trypanosoma cruzi*-infected humans, positive leukocyte migration inhibition test with heart antigens, results suggest cell-mediated immune response against heart tissue could participate in mechanism of myocardial damage in Chagas' disease

Immunity, Cell-mediated

Veress, B.; et al., 1977, *Immunology*, v. 33 (5), 605-610

human visceral leishmaniasis, 20 fatal cases, histological appearances of spleen and lymph nodes were suggestive of profound disturbance in cell-mediated immunity, depletion of small lymphocytes in thymus-dependent areas accompanied by abundance of parasite-containing histiocytes and hyperplasia of plasma cells

Immunity, Cell-mediated

Vernes, A.; et al., 1972, *Path. Biol.*, v. 20 (1-2), 23-29

fascioliasis, schistosomiasis, determination of delayed hypersensitivity reactions in guinea pigs (exper.) using the macrophage migration inhibition test and intradermal skin tests; preliminary investigations of human schistosomiasis gave similar reactions

Immunity, Cell-mediated

Vernes, A.; et al., 1973, *Path. Biol.*, v. 21 (10), 1073-1078

Schistosoma mansoni and *S. haematobium* in humans, correlations between macrophage migration test, intradermal tests and a macrophage spreading inhibition test for determination of cell-mediated immune reactions

Immunity, Cell-mediated

Vernes, A.; and Capron, A., 1973, *Medecine et Malad. Infect.*, v. 3 (8-9), 321-327

evaluation of hypersensitivity in diagnosis of human helminthiasis

Immunity, Cell-mediated

Vilches, A. M.; et al., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 279-284

Trypanosoma cruzi, mice, effect of heterologous anti-thymocyte serum upon course of infection, shorter survival time and higher parasitemia, no change in agglutination antibody titers, impaired resistance probably in detrimental effect of ATS upon cell-mediated immunity

Immunity, Cell-mediated

Vilde, J.-L., 1976, *Path. Biol.*, v. 24 (2), 133-139

human parasitic diseases in patients receiving immunosuppressive therapy, pathophysiology, decrease in cellular immunity as factor, brief review

Immunity, Cell-mediated

Wakelin, D.; and Lloyd, M., 1976, *Parasitology*, v. 72 (3), 307-315

Trichinella spiralis, mice given mesenteric lymph node cells or serum or both from infected donors, acceleration of worm expulsion

Immunity, Cell-mediated

Wakelin, D.; and Selby, G. R., 1976, *Parasitology*, v. 72 (1), 41-50

Trichuris muris, immune expulsion from resistant mice, suppression by irradiation, attempts to restore by transfer of mesenteric lymph node cells, bone marrow, or immune serum, results confirm involvement of both antibody-mediated and lymphoid cell-mediated phases in immune expulsion

Immunity, Cell-mediated

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 74 (3), 215-224

Trichinella spiralis, mice, transfer of immunity with mesenteric lymph node cells: time of appearance of effective cells in donors; expression of immunity in recipients (worm expulsion and impaired worm reproduction may represent independent aspects of immune response)

Immunity, Cell-mediated

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 74 (3), 225-234

Trichinella spiralis, mice, inhibition of worm expulsion by host irradiation, attempts at reconstitution of immune response gave evidence for involvement of bone marrow-derived cell population in immune expulsion

Immunity, Cell-mediated

Warren, K. S.; et al., 1974, *J. Immunol.*, v. 112 (3), 996-1007

Schistosoma mansoni, mice, cholera toxin profoundly suppressed cell-mediated immunologic reactivity (dermal footpad swelling to soluble egg antigens, granuloma formation around eggs, production of macrophage migration inhibition factor) and ameliorated portal hypertension and esophageal varices in hepatosplenic schistosomiasis

Immunity, Cell-mediated

- Warren, K. S.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 488-493
Schistosoma mansoni, human early established infections, attempted transfer of cellular immunity using transfer factor, negative results

Immunity, Cell-mediated

- Warren, K. S.; et al., 1976, J. Infect. Dis., v. 134 (3), 277-280
Trichinella spiralis, human, murine, eosinophil stimulation promoter test, aid in diagnosis, specificity established by lack of cross-reactions with *Schistosoma mansoni*

Immunity, Cell-mediated

- Webster, L. T., jr.; et al., 1975, N. England J. Med., v. 292 (22), 1144-1147
Schistosoma haematobium, *S. mansoni*, niridazole as suppressant of delayed hypersensitivity in schistosome-infected persons, no effect on immediate skin test responses; potential as immunosuppressive agent for other medical conditions

Immunity, Cell-mediated

- Weinbaum, F. I.; Evans, C. B.; and Tigelaar, R. E., 1976, J. Immunol., v. 116 (5), 1280-1283
 description of in vitro T cell-dependent proliferative response of immune BALB/c mouse spleen cells to *Plasmodium berghei* yoelii-infected syngeneic RBCs and to saline-soluble-extract prepared from schizonts

Immunity, Cell-mediated

- Weinbaum, F. I.; Evans, C. B.; and Tigelaar, R. E., 1976, J. Immunol., v. 117 (5), pt. 2, 1999-2005
Plasmodium berghei yoelii, course of infection in T cell and B cell deficient mice, results establish requirement for presence of both T cells and B cells for effective resistance

Immunity, Cell-mediated

- Weiss, N.; Oberlin, U. P.; and Degremont, A., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 317-321
Schistosoma haematobium, *S. mansoni*, stimulation of hamster and human lymphocyte cultures by soluble egg and adult worm antigen preparations

Immunity, Cell-mediated

- Weissberger, H.; Spira, D. T.; and Zuckerman, A., 1973, J. Protozool., v. 20 (4), 534-535
Leishmania enriettii-infected guinea pigs, delayed hypersensitivity reactions to homologous and heterologous (*L. tropica*, *L. donovani*, *L. tarentolae*) antigens, skin test, blast transformation, macrophage migration inhibition

Immunity, Cell-mediated

- Whitelaw, A.; Miller, J. F. A. P.; and Mitchell, G. F., 1977, Cellular Immunol., v. 32 (1), 216-222
Plasmodium berghei, delayed-type hypersensitivity response to blood cells from infected mice can be elicited in sensitized mice

Immunity, Cell-mediated

- Wikel, S. K.; and Allen, J. R., 1976, Immunology, v. 30 (3), 311-316
Dermacentor andersoni, guinea pigs, development of resistance to larvae, resistance passively transferred with viable lymph node cells but not with serum

Immunity, Cell-mediated

- Wikel, S. K.; and Allen, J. R., 1976, Immunology, v. 30 (4), 479-484
Dermacentor andersoni, guinea pigs, cyclophosphamide treatment, blockage of acquisition of resistance, partial blockage of expression of resistance, evidence of humoral component to resistance mechanism in addition to previously established cell-mediated component

Immunity, Cell-mediated

- Wilkins, H. A.; and Brown, J., 1977, Ann. Trop. Med. and Parasitol., v. 71 (1), 59-66
Schistosoma haematobium in heavily infected population, decreased response rate in delayed hypersensitivity reactions with depressed response of lymphocytes to phytohaemagglutinin, increased IgG and IgM and presence of rheumatoid factor; concluded that chronic schistosomiasis can lead to state of partial immunosuppression: The Gambia

Immunity, Cell-mediated

- Williams, D. M.; and Remington, J. S., 1977, Immunology, v. 32 (1), 19-23
Trypanosoma cruzi, capable of infecting and multiplying in human monocytes and monocyte-derived macrophages, activated macrophages inhibited intracellular multiplication of parasites and number of parasites in supernatants of activated monolayers markedly decreased

Immunity, Cell-mediated

- Williams, D. M.; Sawyer, S.; and Remington, J. S., 1976, J. Infect. Dis., v. 134 (6), Dec., 610-623
 mice (exper.) whose macrophages were activated by *Trypanosoma cruzi* or *Besnoitia jellisoni* were significantly more resistant to intraperitoneal challenge with *T. cruzi* than were controls; activated macrophages were able to inhibit completely multiplication of *T. cruzi*, this suggests that the macrophage may play a major role in resistance to infection

Immunity, Cell-mediated

- Willms, K., 1975, Patologia, v. 13 (1), 115-125
Cysticercus cellulosae from pigs, antigens prepared from scolices induce in vitro proliferation of spleen lymphocytes from immunized and control mice, antigen mixture from scolices contains host serum proteins among them pig IgG, preliminary studies with electron microscope demonstrate presence of pig IgG on microvilli of external larval wall

- Immunity, Cell-mediated
Wing, E. J.; and Remington, J. S., 1977, West. J. Med., San Francisco, v. 126 (1), 14-31
role of cell-mediated immunity (and enhancement by levamisole) in host defense against human parasitic diseases, extensive review
- Immunity, Cell-mediated
Wing, E. J.; and Remington, J. S., 1977, Cellular Immunol., v. 30 (1), 108-121
Toxoplasma gondii, mice, studies on regulation of lymphocyte reactivity by normal and activated macrophages
- Immunity, Cell-mediated
Wolf, R. E., 1976, J. Parasitol., v. 62 (2), 209-214
Leishmania tropica yotvata, Macaca mulatta as possible simian model of human disease, primary, secondary, and tertiary infection, clinical resistance, cellular- and humoral-immune responses, effects of antilymphocyte globulin therapy, results quantitatively and qualitatively different from those in humans
- Immunity, Cell-mediated
Wolf, R. E., 1977, Clin. Immunol. and Immunopathol., v. 2 (3), 381-394
Babesia microti, effects of antilymphocyte serum and splenectomy on resistance to infection in hamsters, results suggest that although cellular immunity is major factor in host resistance humoral antibody may modify parasitemia and thus give some protection
- Immunity, Cell-mediated
Wong, H. S. W.; Embil, J. A.; and Ozere, R. L., 1976, Exper. Parasitol., v. 40 (3), 421-426
Ascaris suum, Toxocara canis, guinea pigs sensitized with egg extract antigens, dermal reactivity, macrophage migration inhibition test, and lymphocyte transformation using homologous and heterologous antigens
- Immunity, Cell-mediated
Wyler, D. J.; and Brown, J., 1977, Clin. and Exper. Immunol., v. 29 (3), 401-407
Plasmodium falciparum, malaria antigen-specific T-cell responsiveness not abrogated during infection, need for further work to identify basis of immunosuppression in malarial infection; possibility of acquiring sensitized T cells without experiencing clinically apparent infections
- Immunity, Cell-mediated
Yoshimura, K.; et al., 1976, Japan. J. Vet. Sc., v. 38 (6), 579-593
Angiostrongylus cantonensis, guinea pigs, rats, evolution of cellular (macrophage migration inhibitory factor; delayed-type skin reactivity) and humoral (hemagglutinating and precipitating antibodies) immune responses
- Immunity, Cell-mediated
Yoshimura, K.; and Soulsby, E. J. L., 1976, Am. J. Trop. Med. and Hyg., v. 25 (1), 99-107
Angiostrongylus cantonensis, rats, lymphoid cell responsiveness, antibody production (reaginic and haemagglutinating)
- Immunity, Cell-mediated
Yuan, L.; and Sell, K. W., 1974, Immunochemistry, v. 11 (5), 235-242
Schistosoma mansoni, guinea pigs, development of delayed hypersensitivity in response to antigens extracted from cercariae, successful transfer of cercarial delayed hypersensitivity with lymphoid cells, pronase treatment decreased immunogenicity and antigenicity of cercarial antigens suggesting that protein components play major role
- Immunity, Cell-mediated
Zander, B.; and Hoerchner, F., 1976, Pathophysiol. Parasit. Infect., 241-246
Nippostrongylus brasiliensis in vitro, effect of rat macrophages and lymphocytes vs. effects of serum, results suggest that cell dependent reactions rather than humoral components are involved in immune response
- Immunity, Cell-mediated
Zeledon, R.; de Ponce, E.; and Ponce, C., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 536-537 [Letter]
comparison of Montenegro skin test for delayed hypersensitivity and macrophage migration inhibition test in 3 persons with cured leishmaniasis and woman with chronic Leishmania braziliensis
- Immunity, Cell-mediated
Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446
Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions
- Immunity, Cell-mediated
Zuckerman, A.; and Jacobson, R. L., 1975, J. Protozool., v. 22 (3), 73A-74A [Abstract]
Plasmodium berghei, rats, adoptive transfer of protection by spleen cells from recovered rats (untreated and pretreated with cyclophosphamide)
- Immunity, Cell-mediated
Zuckerman, A.; and Jacobson, R. L., 1976, Internat. J. Parasitol., v. 6 (2), 103-106
Plasmodium berghei, rats, transfer of normal or immune spleen cells induces accelerated fluorescent antibody response, only immune cells induce protection against challenge; pre-treatment of donors with cyclophosphamide depletes spleens but affects neither antibody response nor protection-inducing potential in recipients
- Immunity, Cellular. See Immunity, Cell-mediated.
- Immunity, Complement
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human toxoplasmosis, epidemiologic survey for prevalence of infection comparing results of complement fixation and Sabin-Feldman dye test: West Berlin

Immunity, Complement

Alley, J. L.; and Christenberry, C. C., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 137-140
 anaplasmosis, cattle, comparison of rapid card agglutination test with complement fixation test showed overall agreement of 93.9% for unvaccinated animals and 77.9% for vaccinated herds; demonstration that anaplasmosis can be eliminated from a herd of cattle by isolation and aureomycin treatment of infected animals detected exclusively on basis of card agglutination test results

Immunity, Complement

Anderson, R. I.; and Buck, A. A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (4), 447-456
 complement levels in residents of rural village in relation to wide variety of clinical, laboratory, and epidemiological factors including parasitic diseases: Ouli Bangala, Republic of Chad

Immunity, Complement

Annable, C. R.; and Ward, P. A., 1974, J. Immunol., v. 112 (1), 1-8
 Babesia rodhaini, rats, presence of proliferative glomerulitis, this renal complication is associated with glomerular deposits of IgG and third component of complement in pattern diagnostic for soluble immune complex-induced nephritis

Immunity, Complement

Anziano, D. F.; et al., 1972, Infect. and Immun., v. 6 (5), 860-864
 Trypanosoma cruzi, role of complement in immune lysis

Immunity, Complement

Archer, G. T.; Robson, J. E.; and Thompson, A. R., 1977, Pathology, v. 9 (2), 137-153
 Ascaris suum, Echinococcus granulosus, isolation from both parasites of a phospholipid capable of inducing eosinophilia and mast cell hyperplasia when injected into rats (exper.), phagocytosis found to be complement dependent and eosinophilia possibly resulted from stimulation of alternate complement pathway by the phospholipid

Immunity, Complement

Assoku, R. K. G.; Tizard, I. R.; and Nielsen, K. H., 1977, Lancet, London (8045), v. 2, 956-958
 human African trypanosomiasis, hypothesis that immunosuppression may be result of collective immunosuppressive effects of trypanosome-derived immune-modulating free fatty acids, polyclonally stimulated B-cell mitogen and complement-activating factors

Immunity, Complement

Baldini, I.; Pala, V.; and Ferro, M., 1974, Pathologica (959-960), v. 66, 339-349
 Ascaris lumbricoides in humans, complement fixation, passive agglutination and latex agglutination compared with direct fecal examination as means of diagnosis

Immunity, Complement

Barrowman, P. R., 1976, Onderstepoort J. Vet. Research, v. 43 (2), 55-65
 Trypanosoma equiperdum in naturally infected horses, transmission studies, clinical symptoms and lesions, localization of parasite, host immune response, methods for parasite detection, varying results of chemotherapy with MSbE; attempts to infect rats, rabbits, and a dog were unsuccessful: South Africa

Immunity, Complement

Bassily, S.; et al., 1976, J. Trop. Med. and Hyg., v. 79 (11), 256-258
 Schistosoma mansoni in humans, Salmonella and schistosomal associated nephrotic syndrome, pathologic changes, immunoglobulin levels and serum complement pre- and post-treatment with niridazole and ampicillin

Immunity, Complement

Benkova, M.; and Boroskova, Z., 1976, Vet. Med., Praha, v. 49, v. 21 (6), 369-373
 Ascaris suum, rabbit (non-specific host), demonstration of migration phase, sensitivity of complement-fixation and latex-fixation test

Immunity, Complement

Berden, J. H. M.; Koene, R. A. P.; and Meuwissen, J. H. E. T., 1977, Trop. and Geogr. Med., v. 29 (1), 117 [Abstract]
 Plasmodium falciparum, case report of human with falciparum malaria and renal insufficiency due to acute tubular necrosis, conclusion that complement mediated vascular injury and intravascular coagulation secondary to this damage play important role in severity of infections

Immunity, Complement

Berenberg, J. L.; Ward, P. A.; and Sonenshine, D. E., 1972, J. Immunol., v. 109 (3), 451-456
 Dermacentor variabilis, salivary gland extract generates by cleavage of CS a chemotactic factor for neutrophils, this complement-derived factor may be important in mediating the acute inflammatory response to the tick bite

Immunity, Complement

Berger, J.; and Piekarski, G., 1976, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 236 (4), 543-558
 acute Toxoplasma gondii infections, results of serological analysis, influence of standardization, comparison of complement fixation and dye tests, apparent decline in cases since 1969 due to methodological, not epidemiological factors

Immunity, Complement

Bessieres-Cathala, M. H.; et al., 1975, Medecine et Malad. Infect., v. 5 (12), 592-596
 micromethod of complement fixation in diagnosis of various human parasites

- Immunity, Complement
Bordjoni, L.; and Conic, V., 1973, Acta Parasitol. et Med. Biologica, v. 4 (2), 99-105
- 42 Sarcocystis tenella, preparation of antigens for complement fixation test and fluorescent antibody test, survey of humans, low number of low titre positive reactions not considered conclusive proof that sarcosporidiosis does not occur in humans
- Immunity, Complement
Boulanger, P.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 129-133
- Anaplasma marginale, comparison of 2 complement fixation test methods (U.S. Dept. Agriculture vs. Canadian Animal Dis. Research Inst.), survey of cattle population of Southern Alberta in 1966 revealed no active infection, control of first Canadian outbreak in Manitoba in 1963 by serological identification and slaughter, surveillance exercised since 1970: Canada
- Immunity, Complement
Bout, D.; et al., 1977, Immunology, v. 33 (1), 17-22
- Schistosoma mansoni, humans, mice, circulating immune complexes, comparison of detection by 3 techniques (125 I-Clq binding test, complement fixation test, optical density measurement)
- Immunity, Complement
Bout, D.; Santoro, F.; and Capron, A., 1975, Medecine et Malad. Infect., v. 5 (12), special no., 651-656
- Schistosoma mansoni, identification of circulating immune complexes in infected human serum, characterization of specific antigen
- Immunity, Complement
Bower, S. M.; and Woo, P. T. K., 1977, Exper. Parasitol., v. 43 (1), 63-68
- Cryptobia catostomi, use of in vitro plasma incubation test in study of host specificity (plasma of 6 refractive fishes had cryptobiacidal titers) and of host resistance mechanism (suggested that alternate pathway of complement activation is one mechanism of 'natural immunity' by vertebrates that are related to the susceptible host)
- Immunity, Complement
Brozko, W. J.; et al., 1976, National Cancer Inst. Monograph (43), 163-189
- Pneumocystis carinii, infants, immunofluorescence and immunoelectron microscopic study of tissue, antibodies are essential in elimination of P. carinii through their opsonization of the organisms, disintegration of P. carinii conglomerates subsequent to binding of complement to immune complexes preceded their phagocytosis, replication of P. carinii at rate leading to clinical symptoms is due to impaired and delayed synthesis both of specific antibodies and of complement
- Immunity, Complement
Buening, G. M., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 71-76
- Anaplasma marginale, calves (intact, splenectomized, vaccinated, unvaccinated), comparison of results in leukocyte migration inhibition test, complement fixation test, and intradermic skin tests
- Immunity, Complement
Capron, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 248-253
- Schistosoma mansoni, complement dependent cytotoxic antibodies, correlation with clinical forms of infection, levels of other specific anti-S. mansoni antibodies, delayed hypersensitivity and presence of urinary M antigen in host
- Immunity, Complement
Chapman, W. L.; and Ward, P. A., 1976, J. Immunol., v. 116 (5), 1284-1288
- Babesia rodhaini-infected rats, metabolism of third component of complement and IgG, development of hypocomplementemia and immune complex nephritis
- Immunity, Complement
Chapman, W. L.; and Ward, P. A., 1976, J. Immunol., v. 117 (3), 935-938
- Babesia rodhaini, rats, depletion of C2, C3, C4, C5, and whole complement in course of infection, no evidence of depletion in alternative (properdin) pathway, findings indicate complement is activated via classical pathway in babesiosis
- Immunity, Complement
Chapman, W. L.; and Ward, P. A., 1977, Science (4285), v. 196, 67-70
- Babesia rodhaini, ability to penetrate human erythrocytes depends on factors of the alternative complement pathway (properdin and factor B) as well as ionic magnesium and the third (C3) and fifth (C5) components of complement
- Immunity, Complement
Daddow, K. N., 1977, Austral. Vet. J., v. 53 (3), 139-143
- Eperythrozoon ovis, sheep (nat. and exper.), complement fixation test, diagnosis
- Immunity, Complement
Daddow, K. N.; and Dunlop, L., 1976, Queensland J. Agric. and Animal Sc. v. 33 (2), 233-236
- Eperythrozoon ovis, sheep, detection by complement fixation test and stained thin blood smears, ewes appeared to be source of infection for lambs, possible role of sandflies and mosquitoes in mode of transmission
- Immunity, Complement
De Rosa, F.; et al., 1972, Parasitologia, v. 14 (2-3), 293-302
- Schinococciosis, human, complement fixation reaction, indirect hemagglutination, comparison, epidemiological applications, case histories

Immunity, Complement

- Dhar, S.; and Gautam, O. P., 1977, Indian J. Animal Sc., v. 47 (7), 389-394
Theileria annulata, calves (nat. and exper.), complement-fixation and conglutinating-complement-adsorption tests, more reliable in determining latent *Theileria* infection than blood smear examination

Immunity, Complement

- Dhar, S.; and Gautam, O. P., 1977, Indian Vet. J., v. 54 (1), 21-24
Theileria, cattle, species differentiation using complement-fixation test

Immunity, Complement

- Duffus, W.P.H.; Preston, J. M.; and Staak, C. H., 1975, J. Helminth., v. 49 (1), 1-7
Schistosoma bovis, fractionation of adult worm antigen, use in complement fixation, immuno-diffusion, indirect haemagglutination and indirect haemagglutination inhibition tests, cross-reactions using sera from *Fasciola gigantica*-infected cattle

Immunity, Complement

- Dymowska, Z.; and Sporzynska, Z., 1973, Med. Dosw. i Mikrobiol., v. 25 (4), 339-343
Toxoplasma gondii, human, evaluation of passive agglutination test for diagnosis, comparison with complement fixation and immunofluorescence

Immunity, Complement

- Farid, Z.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 822-823
Entamoeba histolytica, human hepatic amoebic liver abscess as frequent cause of obscure fever, diagnosis by counterimmunoelectrophoresis and other immunoserologic techniques, metronidazole successful as initial therapy but combined with aspiration and drainage of large abscesses: Cairo, Egypt

Immunity, Complement

- Felgner, P.; and Lederer, I., 1976, Tropenmed. u. Parasitol., v. 27 (2), 165-168
 comparative study using complement fixation, indirect agglutination and latex agglutination tests in immunodiagnosis of amoebiasis (differently prepared antigens, specific recommendations for latex agglutination, long-term storage of sensitized sheep red cells and temperature variations)

Immunity, Complement

- Flemmings, B. J.; Diggs, C. L.; and Powell, C. J., jr., 1976, Abst. Ann. Meet. Am. Soc. Microbiol., 77
Trypanosoma rhodesiense, alternative pathways of complement activation in cytotoxicity against trypanosomes by immune serum

Immunity, Complement

- Gam, A. A.; and Neva, F. A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 47-57
Trypanosoma cruzi, serodiagnosis using various epimastigote antigens and comparison with results obtained with trypomastigote antigen prepared from cell cultures, differences between antigens demonstrated by immunoprecipitation

Immunity, Complement

- Ghose, A. C.; and Rowe, D. S., 1977, Immunochimistry, v. 14 (6), 459-465
Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity, Complement

- Gravelly, S. M.; and Kreier, J. P., 1974, Tropenmed. u. Parasitol., v. 25 (2), 198-206
Babesia microti, removal from infected hamster erythrocytes by continuous-flow ultrasonication, freed parasites collected by differential centrifugation, effectiveness of this system of lysis evaluated by electron microscopy and parasites evaluated serologically by complement-fixation testing, cross-reactions with sera from *Plasmodium berghei*-infected hamsters may be due to erythrocyte contamination

Immunity, Complement

- Greenwood, B. M.; and Brueton, M. J., 1974, Clin. and Exper. Immunol., v. 18 (2), 267-272
Plasmodium falciparum, children, depression of serum complement, results suggest complement activation occurs predominantly via the classical pathway and may contribute to vascular damage

Immunity, Complement

- Greenwood, B. M.; and Whittle, H. C., 1976, Clin. and Exper. Immunol., v. 24 (1), 133-138
Trypanosoma brucei gambiense, humans, evidence that complement activation plays a role in pathogenesis of Gambian sleeping sickness: low levels of complement components C3, C4, and factor B in sera, high serum IgM levels, possible formation of large molecular weight IgM complexes, increase in serum C3 levels after melarsoprol treatment

Immunity, Complement

- Hajela, S. K.; Bhatia, B. B.; and Rai, D. N., 1977, Indian J. Animal Sc., v. 45 (10), 1975, 799-801
Schistosoma incognitum, pigs (exper.), complement fixation test, helpful in early diagnosis

Immunity, Complement

- Hammerberg, B.; et al., 1976, Pathophysiol. Parasit. Infect., 233-240
Taenia taeniaeformis, detection and partial characterization of parasite-derived substances which are able to inhibit complement-dependent haemolysis, deplete C3 levels and generate anaphylatoxin activity in normal serum in vitro, and cause profound depression of rat serum complement in vivo; anti-complementary activity also associated with *Taenia crassiceps*, *T. saginata*, *T. hydatigena*, *Echinococcus granulosus*, and *T. pisiformis*

- Immunity, Complement
 Hammerberg, B.; Musoke, A. J.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 327-331
 Echinococcus granulosus, factors in hydatid fluid can initiate non-immunologic activation of complement in normal serum and production of anaphylatoxins, this mechanism may be involved in pathogenesis of hydatid fluid shock syndrome and may also contribute to development of non-specific reactivity in immunodiagnostic skin tests for hydatid infection
- Immunity, Complement
 Herd, R. P., 1976, *Parasitology*, v. 72 (3), 325-334
 Echinococcus granulosus protoscoleces and adults, effects of complement and/or specific antibodies in vitro
- Immunity, Complement
 Hoshino-Shimizu, S.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 492-496
 Schistosoma mansoni, human, demonstration of schistosomal antigens in kidney infections, characterization of specific antigens and antibodies localized in kidney, evidence that renal injury is mediated through immune complex disease
- Immunity, Complement
 Houba, V., 1976, *Pathophysiol Parasit. Infect.*, 221-232
 immunopathological mechanisms in parasitic disease, review (immune complexes; complement; autoimmunity; cell-mediated reactions; immunodepression)
- Immunity, Complement
 Husted, S. T.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (2), 322-326
 Taenia taeniaeformis, T. crassiceps, larvae, increased rate of absorption of certain macromolecules in presence of antibody and complement but substances associated with larvae in vitro can deplete functional complement levels in surrounding medium leading to restoration of normal permeability control
- Immunity, Complement
 Houba, V.; et al., 1976, *Clin. Immunol. and Immunopathol.*, v. 6 (1), 1-12
 Plasmodium brasilianum, P. malariae, P. falciparum, humans, Aotus monkeys, increased binding of malarial antibodies with sera, faster disappearance of this antibody from circulation, and its increased deposition in renal glomeruli, serum complement levels during progress of infection, important role of P. malariae in pathogenesis of chronic progressive nephropathies occurring in malarial areas
- Immunity, Complement
 Imai, J., 1972, *Nettai Igaku (Trop. Med.)*, v. 14 (3), 111-123
 Paragonimus westermani, biochemical analysis of antigens, effects of heat, protein and carbohydrate content; reactions to agar-gel diffusion, complement fixation and electrophoresis
- Immunity, Complement
 Jarvinen, J. A.; and Dalmasso, A. P., 1976, *Infect. and Immun.*, v. 14 (4), 894-902
 Trypanosoma lewisi, rats, role of complement in control and termination of infection is not a major one
- Immunity, Complement
 Jarvinen, J. A.; and Dalmasso, A. P., 1977, *Infect. and Immun.*, v. 16 (2), 557-563
 Trypanosoma musculi, course of infections in normocomplementemic, C5-deficient, and C3-depleted mice
- Immunity, Complement
 Jira, J.; et al., 1975, *Ceskoslov. Epidemiol., Mikrobiol., Immunol.*, v. 24 (5), 300-303
 toxoplasmosis, human, relationship between complement fixation titres and results in double agar gel diffusion test
- Immunity, Complement
 Jones, C. E.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 221-234
 Schistosoma japonicum, rabbits, circulating immune complexes, serum Clq and C3, semi-quantitative assessment, relationship to renal pathology and hepatic fibrosis
- Immunity, Complement
 Kabil, S. M., 1976, *J. Trop. Med. and Hyg.*, v. 79 (9), 205-206
 Schistosoma mansoni adult female, mouse (exper.) host complement detected in parasite tegument
- Immunity, Complement
 Kabil, S. M., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 283 [Demonstration]
 Schistosoma mansoni, host complement in tegument of female schistosomes, possible role in protection against host immunological attacks
- Immunity, Complement
 Kabil, S. M.; and Woodruff, A. W., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 291 [Demonstration]
 schistosomiasis, lowered amount of serum complement in infected persons suggests possible association of complement with schistosomal anemia
- Immunity, Complement
 Kagan, I. G.; and Norman, L. G., 1976, *National Cancer Inst. Monograph (43)*, 121-125
 Pneumocystis carinii pneumonia in humans, evaluation of serologic tests with comparison of results of immunodiffusion, immunofluorescence, complement fixation and double diffusion tests, lower level of measurable antibody in American sera in comparison to that from European laboratories
- Immunity, Complement
 Kassis, A. I.; Goh, S. L.; and Tanner, C. E., 1976, *Internat. J. Parasitol.*, v. 6 (3), 199-211
 Echinococcus multilocularis, protoscoleces, changes in tegument ultrastructure during complement-mediated lysis in vitro, transmission and scanning electron microscopy

Immunity, Complement

Kassis, A. I.; and Tanner, C. E., 1976, *Internat. J. Parasitol.*, v. 6 (1), 25-35

Echinococcus granulosus and *E. multilocularis* protoscolecemes, lysis in vitro by fresh serum; role of complement proteins in lysis suggested by inhibition of protoscolecidal activity by heat, EDTA, or cobra venom factor; anticomplementary activity of hydatid fluid (associated with calcareous corpuscles) may protect protoscolecemes in vivo; suggestion that use of formalin during surgery to kill parasite should be replaced by use of fresh serum

Immunity, Complement

Kassis, A. I.; and Tanner, C. E., 1977, *Exper. Parasitol.*, v. 43 (2), 390-395

Echinococcus multilocularis, cotton rats, strong correlation between complement depletion and rapid development of large cyst masses, complement required for control of secondary hydatid infections; determination of altered complement levels might be useful in predicting growth phase of hydatid infections

Immunity, Complement

Kassis, A. I.; and Tanner, C. E., 1977, *Immunology*, v. 33 (1), 1-9

Echinococcus multilocularis, demonstration of host serum proteins within cyst membranes and on surface of protoscolecemes, concluded that complement-mediated lysis of this metazoan organism proceeds via classical pathway of complement activation

Immunity, Complement

Kean, B. H.; and Kimball, A. C., 1977, *Am. J. Dis. Child.*, v. 131 (1), 21-28

Toxoplasma gondii, human congenital infections, complement fixation test provides valuable laboratory support for diagnosis in conjunction with Sabin-Feldman dye test

Immunity, Complement

Kierszenbaum, F., 1976, *J. Parasitol.*, v. 62 (1), 134-135

Trypanosoma cruzi, no difference in susceptibility of Y and Tulahuén strains to immune lysis, exacerbation of infection with both strains by complement depletion, mice

Immunity, Complement

Kierszenbaum, F.; Ivanyi, J.; and Budzko, D. B., 1976, *Immunology*, v. 30 (1), 1-6

Trypanosoma cruzi, chickens, natural resistance, capacity of sera to lyse trypomastigotes in vitro, complement-dependent and antibody-independent phenomena

Immunity, Complement

Kierszenbaum, F.; and Weinman, D., 1977, *Immunology*, v. 32 (2), 245-249

Trypanosoma cyclops, nonspecific lysis by normal human serum found to be complement-dependent and to follow activation of alternative pathway without apparent requirement for conventional antibodies

Immunity, Complement

Kobayashi, A.; Soltys, M. A.; and Woo, P.T.K., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (1), 53-58

Trypanosoma congolense, sheep, diagnosis, comparison of various parasitological techniques (wet mount preparation; hematocrit centrifuge technique; mouse inoculation test) with various serological techniques (immuno-lysis test; indirect fluorescent antibody test; complement fixation test; immunoconglutination test), effect of treatment with quinapyramine dimethosulphate on diagnosis

Immunity, Complement

Kobayashi, A.; and Tizard, I. R., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 411-417

Trypanosoma congolense-infected calves (exper.), changes in levels of immunoglobulins and complement fixing antibody titres during course of infection

Immunity, Complement

Krettli, A. U.; Nussenzweig, V.; and Nussenzweig, R. S., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 34-41

Plasmodium berghei, mice, level of immune complex release activity from surface of lymphocytes, alternative complement pathway function, C3 levels in serum

Immunity, Complement

Kuttler, K. L.; Adams, L. G.; and Todorovic, R. A., 1977, *Am. J. Vet. Research*, v. 38 (2), 153-156

Babesia bigemina, infected mature cattle, comparison of complement fixation and indirect fluorescent antibody reactions, CF more sensitive than IFA in longer infection, both successful in early infections

Immunity, Complement

La Placa, M.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 396-398

partially purified protein and polysaccharide antigens obtained from *Leishmania donovani*, both fractions induce positive intradermal skin reaction, but only the protein fraction detects humoral antibody in complement fixation tests

Immunity, Complement

Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (3), 288-292

Schistosoma mattheei, Friesian steers (exper.), antibody response followed up to 76 weeks by complement fixation, indirect haemagglutination, and indirect immunofluorescent tests, strong cross-reaction to *Fasciola gigantica* and *Paramphistomum microbothrium* in CF test, while IH and IF tests were specific; IF test of proven value in diagnosis of clinical schistosomiasis

Immunity, Complement

Leventhal, R.; and Soulsby, E. J. L., 1977, *Exper. Parasitol.*, v. 41 (2), 423-431

Ascaris suum early larval stages, cuticular binding of third component of complement

Immunity, Complement

Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70

Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)

Immunity, Complement

McHardy, N.; and Gilson, C., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 11-21

Anaplasma marginale, differences in ultrastructure of agglutinating and complement-fixing antigens, relation to structure of complete organism

Immunity, Complement

MacRae, A. A.; Anderson, R. I.; and Fazen, L. E., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 658-662

Onchocerca volvulus in humans, evaluation of complement fixation for diagnosis; not good index of degree of infection (suppression of titer in persons with large numbers of microfilariae in skin) but useful diagnostic tool in recently acquired infection and suspected cases without microfilariae in skin and no apparent nodules

Immunity, Complement

Madwar, M. A.; and Voller, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 57-62

Schistosoma haematobium and *S. mansoni* in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear

Immunity, Complement

Mahmoud, A. A. F.; and Woodruff, A. W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 187-188

Schistosoma mansoni in mice (exper.), glomerular nephritis caused by immune complex deposits which contained complement

Immunity, Complement

Mannweiler, E.; et al., 1976, *Deutsche Med. Wchenschr.*, v. 101 (52), 1915-1919

human amoebic hepatic abscesses, comparative seroimmunologic tests for antibody presence in infected persons, controls and persons from endemic areas show multiple tests needed for accurate diagnosis

Immunity, Complement

Martin, W. H.; and Ritchie, W. H., 1973, *Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973)*, 141-142

Anaplasma marginale, cattle, diagnosis, microtiter complement fixation technique

Immunity, Complement

Matossian, R. M.; et al., 1976, *Internat. J. Parasitol.*, v. 6 (5), 367-371

Echinococcus granulosus, human, serum immunoglobulin levels, significant increase in IgG, increase in IgM and IgA significant only in pulmonary cases, no significant correlation between haemagglutinating and complement fixing antibody titres and respective IgG and IgM levels, IgD levels not different between patients and controls, elevated IgE in 77%, persistent hyperglobulinemia in post-operative follow-ups

Immunity, Complement

Mehlitz, D., 1975, *Tropenmed. u. Parasitol.*, v. 26 (3), 265-275

Trypanosoma spp. of *Nannomonas*, *Duttonella*, and *Trypanozoon* subgenera, comparison of indirect fluorescent antibody test and complement fixation test as means of differentiating subgenera by serology and persistence of antibodies

Immunity, Complement

Merino, F.; and Brand, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (2), 229-234

Onchocerca volvulus in humans living in endemic area, determinations of immunological profile in comparison with normal controls showed little alteration in immunoglobulin levels, third component of complement or in response of peripheral blood lymphocytes to mitogens

Immunity, Complement

Meuwissen, J. H. E. T., 1976, *National Cancer Inst. Monograph* (43), 133-136

Pneumocystis carinii pneumonia in humans, attempts to apply indirect fluorescent antibody tests and complement fixation to the laboratory diagnosis of infection and to epidemiologic surveillance in outbreaks, preliminary data on experimental use of rat colony for longitudinal studies

Immunity, Complement

Mitchell, G. F.; Goding, J. W.; and Rickard, M. D., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 165-186

Taenia taeniaeformis (*Cysticercus fasciolaris*), mice, antibodies and complement as factors influencing susceptibility/resistance; markedly increased susceptibility of certain complement-deficient mouse strains (in particular, males), of hypothyroid mice, and of cyclophosphamide-treated mice; impressive protective activity of immune serum

Immunity, Complement

Mohr, W., 1976, *Med. Klin.*, Berlin, v. 71, 1204-1209

human protozoal infections, value of immunoserologic techniques in diagnosis, comparison with results of direct blood examination and culture methods

Immunity, Complement

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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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Trypanosoma cruzi, antigenic analysis, titers obtained with complement-fixation and indirect hemagglutination tests using hyperimmune sera from rabbits and guinea pigs; antibodies in mice demonstrable earlier and longer by complement fixation than by indirect hemagglutination and double-gel diffusion; for 33 Chagas' disease patients indirect hemagglutination was slightly more sensitive than complement-fixation, serum IgM levels not raised
- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
 Piekarski, G.; Saathoff, M.; and Nouri-Nekoui, M. H., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (2), 161-173
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- Immunity, Complement
 Quilici, M.; Assadourian, Y.; and Ranque, P., 1971, Medecine Trop., v. 31 (2), 207-213
 immunological diagnosis and post-treatment evaluation of human echinococcosis, comparison of sero-immunological tests
- Immunity, Complement
 Radwanski, Z. K.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 124-132
 Leishmania enriettii in guinea pigs (exper.), use of indirect immunofluorescence to demonstrate antibody response during infection, to detect presence of parasites, gamma-globulin and complement during active infection and during healing process; antibody detected in primary lesions unrelated to healing process or pathogenesis of tissue damage
- Immunity, Complement
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- Immunity, Complement
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 Echinococcus granulosus, mechanism of lysis of protoscolex incubated in normal serum, strong evidence for lysis by alternate pathway of complement activation, comparison with Echinococcus multilocularis
- Immunity, Complement
 Ridley, D. S., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (6), 793-796
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- Immunity, Complement
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 Anaplasma marginale, cows inoculated with attenuated vaccine, humoral (complement fixing and agglutinating antibodies) and cell-mediated (macrophage migration inhibition test) immune responses, results demonstrate correlation between cell-mediated immunity and protection
- Immunity, Complement
 Rudolph, W.; Rosende, S.; and Correa, J., 1973, Bol. Chileno Parasitol., v. 28 (1-2), 3-6
 Babesia equi, B. caballi, complement fixation micromethod effective diagnostic test for equine piroplasmiasis: Chile
- Immunity, Complement
 Rushton, B., 1976, Research Vet. Sc., v. 21 (2), 242-243
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
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 Schistosoma mansoni, adherence of rat peritoneal mast cells to schistosomula, mast cell adherence sites are receptors for third component of complement
- Immunity, Complement
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 sarcosporidiosis, bovines, diagnosis, complement fixation effective, agglutination and gel diffusion were of no value
- Immunity, Complement
 Sogandares-Bernal, F., 1976, J. Parasitol., v. 62 (2), 222-226
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- Immunity, Complement
 Sogandares-Bernal, F.; and Brandt, S., 1976, Ztschr. Parasitenk., v. 50 (3), 331-334
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- Immunity, Complement
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- Immunity, Complement
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- Immunity, Complement
Srichaikul, T.; Sriasawakul, T.; and Poshya-chinda, M., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (3), 244-246
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- Immunity, Complement
Staak, C., 1976, Vet. Rec., v. 99 (3), 57
Trypanosoma vivax, adult Sahiwal steer, use of complement fixation test in evaluating effectiveness of Berenil treatment and detecting cryptic infection
- Immunity, Complement
Suad, M.; and Woodruff, A. W., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 279 [Demonstration]
Schistosoma mansoni, mice, observations of 'holes' on erythrocytes, possible relationship to complement fixation and anemia
- Immunity, Complement
Surjan, L.; and Stverteczky, Z., 1971, Parasitol. Hungar., v. 4, 11-22
human echinococcosis, indirect hemagglutination test more specific and more sensitive in comparison tests with complement fixation, human cyst fluid recommended for use in testing human serum rather than swine cyst fluid
- Immunity, Complement
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Toxoplasma, mechanism of Sabin-Feldman dye test, importance of complement
- Immunity, Complement
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Dictyocaulus viviparus, calves, immunization, normal or X-ray inactivated larvae, numbers of infective larvae, levels of complement fixing and precipitating antibodies, course of infection, precipitating antibodies appearing later than complement fixing antibodies and probably produced by mature parasites
- Immunity, Complement
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Giardia lamblia causing diarrhea or coeliac like symptoms in children, immunoelectrophoretic patterns of serum proteins excreted in feces
- Immunity, Complement
Tabel, H.; Losos, G. J.; and Maxie, M. G., 1977, Canad. Fed. Biol. Soc., Programme and Proc. 20. Ann. Meet., v. 20, 118 [Abstract]
Trypanosoma vivax, *T. congolense*, cattle, determination of hemolytic complement activity and complement component C3 levels; impairment of complement system perhaps related to immunosuppression and susceptibility to secondary infection
- Immunity, Complement
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Clonorchis sinensis, purification of antigens for complement fixation test
- Immunity, Complement
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- Immunity, Complement
Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1977, Research Vet. Sc., v. 23 (1), 51-54
Babesia bigemina, antigenic variation in 4 stabilates propagated as acute and chronic blood-borne and tick-borne infections of Colombian cattle, characterization by means of complement fixation, gel diffusion, agar gel electrophoresis, and indirect haemagglutination tests
- Immunity, Complement
Threadgold, L. T.; and Befus, A. D., 1977, Exper. Parasitol., v. 43 (1), 169-179
Hymenolepis diminuta, ultrastructural localization of immunoglobulins and complement component 3 on worm tegument
- Immunity, Complement
Todorov, T.; et al., 1976, Bull. World Health Organ., v. 53 (4), 407-415
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- Immunity, Complement
Todorovic, R. A.; and Long, R. F., 1976, Tropenmed. u. Parasitol., v. 27 (2), 169-181
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- Immunity, Complement
Todorovic, R. A.; Long, R. F.; and McCallon, B. R., 1977, Vet. Microbiol., v. 2 (2), 167-177
Anaplasma marginale, calves, complement fixation and rapid card agglutination tests compared, results indicated that under field conditions rapid card agglutination test was a simpler and more reliable diagnostic test: north coast of Colombia

- Immunity, Complement
Tomaneck, J.; and Franek, M., 1975, Acta Vet. Brno, v. 44 (4), 393-399
Dictyocaulus filaria, presence of complement-fixing antibodies in immunoglobulin fractions of sera from lambs, during primary and secondary response to infection with non-irradiated and X-irradiated larvae
- Immunity, Complement
Topley, E.; Knight, R.; and Woodruff, A. W., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 51-54
malaria patients, direct antiglobulin test and immunocglutinin titres, possible significance of results in understanding mechanism of anemia
- Immunity, Complement
Torisu, M.; et al., 1975, Clin. Immunol. and Immunopathol., v. 4 (4), 467-477
Ascaris lumbricoides, patients with worm migration into biliary tree, skin tests, complement fixation, hemagglutination tests, immunoglobulin levels, pre- and post-surgical results, significant preoperative rise in IgE appears to be dependent on Ascaris infection, purified Ascaris antigen has high chemotactic effect on eosinophils
- Immunity, Complement
Tribouley, J.; et al., 1976, Bull. World Health Organ., v. 54 (6), 695-702
Schistosoma mansoni in humans, passive hemagglutination test of high specificity and sensitivity in comparison trials with complement fixation test, useful in epidemiologic surveys
- Immunity, Complement
Tribouley, J.; Tribouley-Duret, J.; and Tlem-sani, A., 1974, Medecine et Malad. Infect., v. 4 (1), 43-50
passive hemagglutination test technique for diagnosis of human echinococcosis, suitable for epidemiologic tool, favorable comparison with complement fixation test
- Immunity, Complement
Tribouley-Duret, J.; et al., 1976, Compt. Rend. Soc. Biol., Paris, v. 170 (2), 349-352
Toxocara canis, mice, rabbits, detection of antibodies using antigen prepared from adult worm rather than larva, precipitation, complement fixation, hemagglutination, results show such antigen should be suitable for diagnosis of visceral larva migrans
- Immunity, Complement
Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 413-421
various schistosome antigens tested against sera from parasitologically proven human cases of Schistosoma mansoni and S. haematobium, Cercarienhullenreaktion, indirect fluorescent antibody test, complement fixation test, indirect haemagglutination test
- Immunity, Complement fixation
Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 422-432
Schistosoma haematobium, human, with and without other helminthic infections, serodiagnosis, various schistosome antigens plus Ascaris suum and Fasciola hepatica tested in Cercarienhullenreaktion, indirect immunofluorescence, indirect haemagglutination, complement fixation, and double gel diffusion tests, evaluation of sensitivity and specificity, attempt to correlate results of serologic tests with some clinical symptoms and with influence of chemotherapy
- Immunity, Complement
Vaughn, H. W.; Renshaw, H. W.; and Frank, F. W., 1976, Am. J. Vet. Research, v. 37 (5), 615-617
Anaplasma marginale, detection in elk, serum card test and complement-fixation test gave incomplete and false-positive reactions, plasma card test gave no reactions, results indicate bovine serologic tests for anaplasmosis may be inadequate with elk serum: Clearwater National Forest, Idaho
- Immunity, Complement
Visvesvara, G. S.; and Balamuth, W., 1975, J. Protozool., v. 22 (2), 245-256
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- Immunity, Complement
Vizcaino G., O.; and Todorovic, R. A., 1975, Rev. Inst. Colomb. Agropec., v. 10 (1), 77-85
Babesia bigemina, B. argentina, characterization of antigens, complement fixation, immunodiffusion, cross-immunity tests
- Immunity, Complement
Wellde, B. T.; et al., 1973, Isotopes and Radiation Parasitol. III, 181-183
Trypanosoma congolense, cattle, clinical signs and parasitaemia, haematology, serum proteins, serum biochemical components, histopathologic findings, diagnosis by complement fixation test compared with indirect fluorescent antibody test
- Immunity, Complement
Wellensiek, H. J.; et al., 1976, Ztschr. Immunitaetsforsch., v. 152 (2), 123 [Abstract]
Toxoplasma gondii, Sabin-Feldman dye test, immunocytolysis caused by properdin-dependent alternate pathway activation of human complement
- Immunity, Complement
Wikel, S. K.; and Allen, J. R., 1977, Immunology, v. 32 (4), 457-465
Dermacentor andersoni, guinea-pigs, effect of cobra venom factor (which causes complement depletion) on resistance response, did not alter acquisition of resistance but blocked expression of resistance in an already resistant animal, histologic picture at attachment site

- Immunity, Complement
Williams, A. I. O.; Rosen, F. S.; and Hoff, R., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (2), 179-185
Plasmodium berghei, mice, role of complement components in susceptibility to infection
- Immunity, Complement
Wilson, M.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1159-1163
human schistosomiasis, serodiagnosis evaluating the indirect immunofluorescence (IIF) and complement fixation (CF) tests concluded that IIF with adult antigen is more sensitive and as specific as CF and therefore is the procedure of choice for routine diagnostic serology
- Immunity, Complement
Woodruff, A. W., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 313-328
mechanisms involved in anemia associated with infection (schistosomiasis, kala-azar, malaria, trypanosomiasis) and splenomegaly in tropics, complement activation leading to hemolysis and splenomegaly due to erythrophagocytosis, review
- Immunity, Complement
Woodruff, A. W.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 329-337
Trypanosom[a] rhodesiense, human, mechanism of anemia, complement coating of erythrocytes and subsequent haemolysis, splenic enlargement due to erythrophagocytosis within spleen
- Immunity, Complement
Wosu, N. J.; et al., 1977, *J. Infect. Dis.*, v. 135 (6), 944-948
Encephalitozoon cuniculi, complement fixation test is sensitive and capable of detecting infection in rabbits (exper.) as early as 15 days after intracerebral infection
- Immunity, Complement
Zapart, W.; Adonajfo, A.; and Gancarz, Z., 1969, *Acta Parasitol. Polon.*, v. 16 (1-19), 1968-1969, 9-19
Trichinella spiralis, sera from infected humans, evaluation of fractionated antigens, complement fixation and ring precipitation tests
- Immunity, Complement
Zawadzka-Jedrzejska, B.; Gancarz, Z.; and Plonka, W., 1971, *Med. Dosw. i Mikrobiol.*, v. 23 (3), 271-279
Fasciola hepatica, beef cattle, comparative evaluation of passive agglutination, complement fixation and ring precipitation test for diagnosis
- Immunity, Complement
Zeromski, J.; and Jazbor, A., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 127-130
Trichinella spiralis, rats, immunofluorescent fixation of heterologous complement by larval antigens; antilarval antibodies apparently present in host serum very early
- Immunity, Congenital. See Immunity, Native; Immunity, Passive.
- Immunity, Cross-immunity. See Immunity, Cross-reactions.
- Immunity, Cross-reactions
Alexander, J.; and Phillips, R. S., 1975, *J. Protozool.*, v. 22 (3), 48A [Abstract]
Leishmania mexicana, immunity in mice, cross-protection between L. tropica major and L. mexicana
- Immunity, Cross-reactions
Arias, J. R.; Menezes, H.; and de Freitas, R. A., 1976, *Acta Amazonica*, v. 6 (4), 483-485
Leishmania sp., 2 strains, golden hamsters immunized with anti-Chagas "PF" vaccine (Trypanosoma cruzi after 400 passages), no significant reduction of infection
- Immunity, Cross-reactions
Aryeetey, M. E.; and Piekarski, G., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 109-124
Sarcocystis tenella-infected rats, antibodies detected by indirect immunofluorescence test; no cross reaction with Toxoplasma-infected mice; rats fed infected sausage showed negative reaction to Sarcocystis antigen
- Immunity, Cross-reactions
Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 615-623
Metastrongylus spp., pigs, immediate hypersensitivity, partial characterization of allergens, suggested that cross reactions so commonly found when using nematode antigens in wheal and erythema reactions can be eliminated by suitable dilution of the allergen
- Immunity, Cross-reactions
Barriga, O. O., 1977, *J. Clin. Microbiol.*, v. 6 (3), 274-279
Trichinella spiralis, different antigenic fractions, reactivity and specificity (tested for cross-reactions against Ascaris suum) in cutaneous (immediate and delayed) and serological (bentonite agglutination, hemagglutination, hemagglutination inhibition) tests, implications for clinical diagnosis of trichinellosis
- Immunity, Cross-reactions
Bartlett, A.; Bidwell, D. E.; and Voller, A., 1975, *Tropenmed. u. Parasitol.*, v. 26 (3), 370-374
Onchocerca volvulus, evaluation of enzyme immunoassay (ELISA) for the diagnosis of human infections, use of O. gutturosa antigens more promising than antigens prepared from various other nematodes
- Immunity, Cross-reactions
Behforouz, N.; Rezai, H. R.; and Gettner, S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (3), 293-301
Leishmania spp., immunofluorescence used to detect antibodies in humans, mice and guinea pigs using heterologous and homologous antigens; immunoelectrophoretic identification of active fraction of guinea pig antibody

Immunity, Cross-reactions

Behnke, J. M.; Bland, P. W.; and Wakelin, D., 1977, *Parasitology*, v. 75 (1), 79-88
rejection phase of *Trichinella spiralis* infection in mice had marked negative effect on growth and survival of *Hymenolepis diminuta*, this effect was not mediated by direct cross-immunity nor was it a direct consequence of inter-specific competition

Immunity, Cross-reactions

Bigalke, R. D.; et al., 1967, *Onderstepoort J. Vet. Research*, v. 34 (1), 7-28
Besnoitia, susceptibility of rabbits, cattle, and sheep to experimental infection with blue wildebeest and impala strains and subsequent immunity to challenge with bovine strains, suggested all be regarded as distinct strains or biological races of *B. besnoiti*

Immunity, Cross-reactions

Brocklesby, D. W.; Harradine, D. L.; and Young, E. R., 1976, *Research Vet. Sc.*, v. 21 (3), 300-302
Babesia major infected calves not protected against *B. divergens*; *B. divergens* infections provide good protection against *B. major*; *B. divergens* might be dominant species where both occur

Immunity, Cross-reactions

Bruce, R. G.; and Wakelin, D., 1977, *Parasitology*, v. 74 (2), 163-173
Trichinella spiralis, *Trichuris muris*, concurrent infection in mice, interactive expulsive response considered an example of indirect cross-immunity with no element of antigenic similarity, involvement of cell-mediated inflammatory response strongly suggested

Immunity, Cross-reactions

Burridge, M. J.; and Kimber, C. D., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 186-191
Theileria spp. antigens tested against sera from cattle inoculated with wildebeest blood containing *Theileria gorgonis* or cattle recovered from infection with *T. parva*, *T. lawrencei*, or *T. mutans*, indirect fluorescent antibody test, results show antigenic distinctness of *T. gorgonis* with only slight degree of cross-reaction with other *Theileria* spp.

Immunity, Cross-reactions

Buys, J.; and Ruitenberg, E. J., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 205 [Abstract]
Trypanosoma brucei, *T. rhodesiense*, comparative application of enzyme-linked immunosorbent assay (ELISA) and immunofluorescence for serodiagnosis of human trypanosomiasis; ELISA represents good alternate method particularly suited for mass screening purposes; cross-reaction only in one person in whom antibodies to *Leishmania* were detected

Immunity, Cross-reactions

Cabrera, E. J.; Barr, M. L.; and Silverman, P. H., 1977, *Infect. and Immun.*, v. 15 (2), 461-465
Plasmodium knowlesi-vaccinated *Macaca mulatta*, protection against challenge with heterologous strain present even 4 years after immunization schedule had been completed

Immunity, Cross-reactions

Campbell, N. J.; et al., 1977, *Internat. J. Parasitol.*, v. 7 (5), 347-351
Fasciola hepatica, stimulation of resistance in sheep by infection with *Cysticercus tenuicollis*

Immunity, Cross-reactions

Cappuccinelli, P., 1972, *Parassitologia*, v. 14 (2-3), 255-260
Armillifer armillatus, antigens, complement fixation and immunodiffusion studies of antibody response in rabbit; identification of active fractions by immunoelectrophoresis; immunodiffusion tests against *Echinococcus granulosus*, *Fasciola hepatica*, *Dicrocoelium dendriticum*, *Onchocerca volvulus* and *Ascaris suum*, no common antigens found

Immunity, Cross-reactions

Cerna, Z., 1975, *J. Protozool.*, v. 22 (3), 60A [Abstract]
"Our preliminary experiments suggested that *E[imeria] contorta* isolated from rats and transmissible to mice may, evidently, be identical in its antigenic reaction to that of the mouse coccidians *E. falciformis* and *E. falciformis* var. *pragensis*"

Immunity, Cross-reactions

Chen, D. H.; Nussenzweig, R. S.; and Collins, W. E., 1976, *J. Parasitol.*, v. 62 (4), 636-637
rat antisera against sporozoites of 6 primate *Plasmodium* spp. reacted in circum-sporozoite precipitation tests only with sporozoites of homologous species, geographically different strains of same species cross-reacted intensely however

Immunity, Cross-reactions

Christie, E.; and Dubey, J. P., 1977, *Infect. and Immun.*, v. 18 (2), 412-415
cross-immunity between *Toxoplasma gondii* and 6 strains of *Hammondia hammondi* in mice and hamsters

Immunity, Cross-reactions

Collins, R. F.; and Ivey, M. H., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 460-464
passive cutaneous anaphylaxis responses of sensitized guinea pigs to various antigens of adult and larval stages of *Toxocara canis* or *Ascaris suum*; homologous reactions; *Ascaris* larval antigen reacted with *Toxocara* antiserum

Immunity, Cross-reactions

Cornish, J.; LeFlore, W. B.; and Smith, B. F., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 266-267 [Abstract]
Cysticercus fasciolaris, sensitivity of micro-precipitin, agar-gel precipitin, immunoelectrophoresis, and indirect hemagglutination tests; cross-reaction with *Taenia crassiceps*, no cross-reaction with *T. saginata* and *Echinococcus granulosus*

Immunity, Cross-reactions

Cox, J. C.; and Gallichio, H. A., 1977, *Research Vet. Sc.*, v. 22 (1), 50-52
Nosema cuniculi, rabbits, serological diagnosis, indirect immunofluorescence test, compared with histopathological methods, no cross-reactivity between *N. cuniculi* and *Toxoplasma gondii*

- Immunity, Cross-reactions**
 Dafalla, A. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 146-147
Toxocara canis, *T. cati* in humans, immunodiagnosis using the capillary-tube precipitin test, cross reaction with *Ascaris* could be eliminated by absorption with *Ascaris* antigen
- Immunity, Cross-reactions**
 Della Bruna, C.; and Xenia, B., 1976, J. Parasitol., v. 62 (3), 490-491
Nippostrongylus brasiliensis: reduced worm burden and prolonged infection in mice harboring *Nematospiroides dubius*
- Immunity, Cross-reactions**
 Dimopoulos, G. T.; and Finerty, J. F., 1976, Am. J. Vet. Research, v. 37 (6), 693-695
Anaplasma marginale, *Plasmodium lophurae*, *P. berghei*, cross reactivity in passive haemagglutination tests
- Immunity, Cross-reactions**
 Dineen, J. K.; et al., 1977, Internat. J. Parasitol., v. 7 (3), 211-215
Trichostrongylus colubriformis-vaccinated sheep, high level of protection against single-species homologous challenge, lowered level of protection against single-species challenge with *T. vitrinus*, no protection against single-species challenge with *Nematodirus spathiger*, high level of protection against all 3 species to simultaneous challenge with all 3 species, latter suggests that terminal effectors of resistance are immunologically non-specific
- Immunity, Cross-reactions**
 Dubey, J. P.; Christie, E.; and Pappas, P. W., 1977, J. Infect. Dis., v. 136 (3), 432-435
Toxoplasma gondii from feces of naturally infected cats, pathogenicity and infectivity of 7 strains of oocysts and cysts compared by infecting mice (exper.) orally and intraperitoneally; cross-immunity of all strains, cysts less pathogenic than oocysts
- Immunity, Cross-reactions**
 Duffus, W.P.H.; Preston, J. M.; and Staak, C. H., 1975, J. Helminth., v. 49 (1), 1-7
Schistosoma bovis, fractionation of adult worm antigen, use in complement fixation, immuno-diffusion, indirect haemagglutination and indirect haemagglutination inhibition tests, cross-reactions using sera from *Fasciola gigantica*-infected cattle
- Immunity, Cross-reactions**
 Dwyer, D. M., 1974, J. Protozool., v. 21 (1), 139-145
Trichomonas gallinae, *Histomonas meleagridis*, *Dientamoeba fragilis*, *Entamoeba invadens*, *E. histolytica*, antigenic relationships analyzed by immunoelectrophoretic techniques
- Immunity, Cross-reactions**
 Ershov, V. S.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 343-348
 anaphylactic shock in guinea pigs after sensitization with free-living or plant-parasitic nematodes and challenge with various helminth antigens indicates antigenic components in common; intradermal tests using antigen from free-living nematode in cases of ascariasis, trichinellosis, and cysticercosis; possible use of free-living nematode to immunize against dictyocaulosis and ascariasis
- Immunity, Cross-reactions**
 zum Felde, I.; et al., 1974, Tropenmed. u. Parasitol., v. 25 (4), 477-484
P[lasmodium] falciparum, *P. vivax*, *P. ovale*, *P. malariae*, human, indirect immunofluorescence test with same 4 *Plasmodium* spp. plus *P. fieldi* as antigen, species-specific and cross-reactions, effect of therapy, implications for immunodiagnosis
- Immunity, Cross-reactions**
 Felsenfeld, O.; and Wolf, R. H., 1973, Ann. Trop. Med. and Parasitol., v. 67 (3), 335-340
 cross-reactions and interference between *Trypanosoma brucei* and *Borrelia turicatae*, antigenic analysis, fluorescent antibody, and immobilisine studies, prolonged survival of mice simultaneously infected with both species
- Immunity, Cross-reactions**
 Frenkel, J. K., 1977, J. Parasitol., v. 63 (4), 611-628
Besnoitia wallacei, mice, rats, cats, serologic tests, cross reactions with *B. jellisoni*, *Toxoplasma gondii*, and *Sarcocystis muris*, immunity to challenge, slight cross-immunity with *B. jellisoni* in mice and rats
- Immunity, Cross-reactions**
 Fromentin, H., 1974, J. Protozool., v. 21 (3), 470 [Abstract]
Trypanosoma brucei gambiense strain M'Bala Victor, ability to protect against 2 heterologous strains (Eliane and Huguette), mice
- Immunity, Cross-reactions**
 Golenser, J.; et al., 1977, Clin. and Exper. Immunol., v. 29 (1), 43-51
Plasmodium berghei, rats immunized with sporozoites or infected blood, indirect fluorescent antibody tests, crossreactivity using as antigen sporozoites, exoerythrocytic forms, or blood schizonts, protection or lack of protection against challenge with sporozoites or infected blood
- Immunity, Cross-reactions**
 Golenser, J.; Verhave, J. P.; and Meuwissen, J. H. E. T., 1977, Parasitology, v. 75 (2), xxxi-xxxii [Abstract]
Plasmodium berghei, specificity of antibody responses to different life-cycle stages, results indicate different antigenic determinants but also certain common antigens

Immunity, Cross-reactions

Goodger, B. V., 1973, Austral. Vet. J., v. 49 (2), 81-84

improved sensitivity of haemagglutination test for *Babesia bigemina* antibody using antigen obtained from lysate of infected erythrocytes; cross-reaction with *B. argentina* antisera, comparing cross-reactions of antigens from both species enables differentiation without inhibition techniques

Immunity, Cross-reactions

Gravely, S. M.; and Kreier, J. P., 1974, Tropenmed. u. Parasitol., v. 25 (2), 198-206

Babesia microti, removal from infected hamster erythrocytes by continuous-flow ultrasonication, freed parasites collected by differential centrifugation, effectiveness of this system of lysis evaluated by electron microscopy and parasites evaluated serologically by complement-fixation testing, cross-reactions with sera from *Plasmodium berghei*-infected hamsters may be due to erythrocyte contamination

Immunity, Cross-reactions

Grootenhuis, J. G.; et al., 1975, J. Wildlife Dis., v. 11 (1), 122-127

impala *Theileria*, no cross-reactivity with other theilerial parasites, indirect fluorescent antibody test

Immunity, Cross-reactions

Grymberg, N.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (1), 35-36

mice, immunization with *Crithidia fasciculata* (live suspension, ribosomal fraction, and purified RNA) induced certain degree of protection (decrease of parasitaemia) against infection with *Trypanosoma cruzi*

Immunity, Cross-reactions

Hamburger, J.; Pelley, R. P.; and Warren, K. S., 1976, J. Immunol., v. 117 (5), pt. 1, 1561-1566

Schistosoma mansoni, three major egg antigens, determination of stage and species specificity by radioimmunoassay

Immunity, Cross-reactions

Hargreaves, B. J.; et al., 1975, Ann. Trop. Med. and Parasitol., v. 62 (3), 289-299

Plasmodium berghei yoelii, mice, protective immunity induced by mild parasite strains against virulent line, effect of increased inocula and time course of infection, further studies testing cross-protection against *P. b. berghei* and *P. v. vinckei*

Immunity, Cross-reactions

Henning, J.; et al., 1974, Behring Inst. Mitt. (54), 107-109

C[ysticercus] bovis, calves (exper.), indirect haemagglutination tests with antigens from *C[ysticercus] bovis*, *C[ysticercus] longicollis* and *T[ae]nia saginata*, all suitable except with infections of less than ten parasites

Immunity, Cross-reactions

Higashi, G. I.; and Young, S. W., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (4), 343 [Letter]

human schistosomes, antigenic relationships with salmonellae, possibly shared surface antigens aid symbiotic state

Immunity, Cross-reactions

Hillyer, G. V., 1976, Am. J. Trop. Med. and Hyg., v. 25 (3), 432-436

Schistosoma japonicum, chimpanzees, presence of circulating antigens in serum between 6 and 9 weeks post-exposure with later clearance, these antigens cross-react with antiserum against *S. mansoni*, persistence of these antigens could result in observed renal damage

Immunity, Cross-reactions

Hillyer, G. V., 1976, Fed. Proc., v. 35 (14), 2568-2571

Fasciola hepatica antigens used in protecting against *Schistosoma mansoni* challenge, common and/or cross-reacting antigens between *S. mansoni*, *S. japonicum*, and *F. hepatica*, possible role of eosinophil in acquired resistance

Immunity, Cross-reactions

Hillyer, G. V.; and Capron, A., 1976, J. Parasitol., v. 62 (6), 1011-1013

Fasciola hepatica, human, immunodiagnosis by counterelectrophoresis, extensive cross-reactivity with sera from patients with various other parasitic infections, partial purification of antigen eliminates much of this cross-reactivity

Immunity, Cross-reactions

Hillyer, G.V.; del Llano de Diaz, A.; and Reyes, C.N., 1977, Exper. Parasitol., v. 42 (2), 348-355

Schistosoma mansoni, mice, hamsters, immunization using antigens of *Fasciola hepatica*

Immunity, Cross-reactions

Hogarth-Scott, R. S.; and Feery, B. J., 1976, Austral. J. Exper. Biol. and Med. Sc., v. 54 (4), 317-327

existence of cross-reacting antigens between *Toxocara canis* and *Ascaris* spp. and probably between *T. canis* and other nematodes confirmed by in vitro and in vivo tests, such cross-reactions compromise usefulness of skin tests in diagnosis

Immunity, Cross-reactions

Holbrook, T. W.; and Palczuk, N. C., 1975, Am. J. Trop. Med. and Hyg., v. 24 (4), 704-706

Leishmania donovani, 2 geographic strains compared with respect to degree of resistance of recovered mice to homologous and heterologous strain challenge

Immunity, Cross-reactions

Hommel, M.; and Miltgen, F., 1973, *J. Protozool.*, v. 20 (4), 527

Trypanosoma blanchardi, *T. rabinowitschae*, adaptation to mice by passage through cultures and then sarcomatous mice, strong cross immunity between *T. musculi* and mouse-adapted strains; adaptation of *T. lewisi* to mice using same method was not possible; this new culture system was used to cultivate *T. brucei*

Immunity, Cross-reactions

Hopkins, C. A.; Goodall, R. I.; and Zajac, A., 1977, *Parasitology*, v. 74 (2), 175-183

Hymenolepis diminuta, *H. microstoma*, mice, effect of primary immunizing infection with one species on growth and survival of secondary infection with heterologous species; data on longevity and pattern of worm loss in primary *H. microstoma* infections in mice; results show that *H. microstoma* in low level infections is able to evade host immune response, heavier worm burden initiates worm loss which may be physiologically ('crowding effect') rather than immunologically mediated

Immunity, Cross-reactions

Huebsch, R. M.; Sulzer, A. J.; and Kagan, I. G., 1976, *J. Parasitol.*, v. 62 (4), 523-527
evaluation of sensitivity and specificity of indirect immunofluorescence test for auto-immune-type EVI antibodies in sera of patients with Chagas disease (*Trypanosoma cruzi*), leishmaniasis (*Leishmania brasiliensis*, *L. donovani*), malaria, and several other non-parasitic diseases; second type of staining of heart tissue also reported for patients with leishmaniasis and malaria but not Chagas' disease

Immunity, Cross-reactions

Hungerer, K. D.; et al., 1974, *Behring Inst. Mitt.* (54), 100-106

Cysticercus *bovis*, *C. longicollis*, *T[ae]nia saginata*, production and purification of antigens, use in indirect haemagglutination test, tests of cross reactions

Immunity, Cross-reactions

Hussein, H. S., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (3), 249-253

Babesia hylomysci, *B. microti*, mice (exper.), recovery from primary infection of *B. microti* results in sterile immunity possibly for lifetime, recovery from *B. hylomysci* results in premunition with infection at subpatent levels with spontaneous relapses, cross-protection occurs between the two species

Immunity, Cross-reactions

Kazacos, K. R., 1975, *Vet. Parasitol.*, v. 1 (2), 165-174

Trichinella spiralis-immunized rats, increased resistance to *Nippostrongylus brasiliensis*, heterologous and homologous tests of immune precipitate formation on infective larvae

Immunity, Cross-reactions

Kazacos, K. R., 1976, *J. Parasitol.*, v. 62 (3), 493-494

Trichinella spiralis-immunized rats, increased resistance to *Strongyloides ratti*; lack of cross-reacting precipitating antibodies in in vitro tests

Immunity, Cross-reactions

Kazacos, K. R.; and Thorson, R. E., 1975, *J. Parasitol.*, v. 61 (3), 525-529

rats, immunization with *Nippostrongylus brasiliensis* or *Strongyloides ratti* protected against homologous and heterologous challenge; precipitates formed on infective larvae incubated in vitro in homologous or heterologous immune globulins

Immunity, Cross-reactions

Kazacos, K. R.; and Thorson, R. E., 1975, *Proc. Helminth. Soc. Washington*, v. 42 (2), 170-171

Mesocestoides corti larval excretory and secretory (ES) antigens had no effect on the establishment and development of *Hymenolepis diminuta* cysticercoids in rats

Immunity, Cross-reactions

Kierszenbaum, F., 1976, *J. Parasitol.*, v. 62 (1), 134-135

Trypanosoma cruzi, no difference in susceptibility of Y and Tulahuén strains to immune lysis, exacerbation of infection with both strains by complement depletion, mice

Immunity, Cross-reactions

Kimber, C. D.; and Young, A. S., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (1), 1-10

Theileria mutans (Aitong), cattle infected by cyclical and mechanical transmission, response to infection studied using indirect fluorescent antibody technique with piroplasm and schizont antigens, indistinguishable reactions with different strains of *T. mutans* but easily distinguishable reactions from other *Theileria* spp.

Immunity, Cross-reactions

Klesius, P. H.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 480-490

Eimeria bovis, cattle, evidence for cell-mediated immune response shown by delayed hypersensitivity skin tests and lymphocyte blastogenesis with antigens extracted from oocysts of *E. bovis* and *E. stiedae*, cross-reactivity between two species

Immunity, Cross-reactions

Komandarev, S.; and Mikhov, L., 1973, *Izvest. Tsentral. Khelminth. Lab.*, v. 16, 111-118

Trichinella spiralis-immunized mice, immunity to homologous and heterologous (*Ascaris suum*) challenge

Immunity, Cross-reactions

Krahenbuhl, J. L.; and Remington, J. S., 1971, *Infect. and Immun.*, v. 4 (4), 337-343

Toxoplasma gondii-sensitized spleen cells in vitro in presence of specific antigen have capacity to activate or enhance microbicidal properties of normal peritoneal macrophages against *Listeria*

Immunity, Cross-reactions

Lainson, R.; and Shaw, J. J., 1977, *J. Trop. Med. and Hyg.*, v. 80 (2), 29-35

cross-immunity trials with *Cebus apella* and observations on natural and experimental human infections confirm separate identity of *Leishmania mexicana mexicana*, *L. m. amazonensis*, *L. braziliensis braziliensis*, *L. b. guyanensis* and *L. b. panamensis*

Immunity, Cross-reactions

Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (3), 288-292

Schistosoma mattheei, Friesian steers (exper.), antibody response followed up to 76 weeks by complement fixation, indirect haemagglutination, and indirect immunofluorescent tests, strong cross-reaction to *Fasciola gigantica* and *Paramphistomum microbothrium* in CF test, while IH and IF tests were specific; IF test of proven value in diagnosis of clinical schistosomiasis

Immunity, Cross-reactions

Liston, A. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 6 [Demonstration]

Trypanosoma cruzi, *T. dionisii*, *T. vesper-tilionis*, cell mediated immune responses in mice, some cross-reactivity of antigens but homologous responses stronger

Immunity, Cross-reactions

Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 86-95

Anaplasma marginale, *A. centrale*, cattle, homologous and heterologous indirect fluorescent antibody and capillary tube agglutination responses to primary infection and reinfection and to cross-infection with the heterologous organisms, clinical reactions; *A. centrale* carrier animals showed high degree of premunity to severe challenge with *A. marginale*

Immunity, Cross-reactions

Long, P. L.; Millard, B. J.; and Shirley, M. W., 1977, *Parasitology*, v. 75 (2), 177-182

Eimeria meleagrimitis from turkeys, oocyst measurements, sporulation and prepatent times, pathogenicity, cross-immunity tests, electrophoretic analysis of enzymes, documentation of strain variation shows that extreme caution should be used in identifying species of *Eimeria* from the turkey by their oocyst characters

Immunity, Cross-reactions

Machnicka, B., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 213-221

Taenia saginata, humans, *Cysticercus bovis*, calves, antibody response, cross-reactions indicating antigenic relationship between adult and larval form, passive hemagglutination, indirect immunofluorescence, gel precipitation, immunoelectrophoresis

Immunity, Cross-reactions

Mahmoud, A. A. F.; Warren, K. S.; and Strickland, G. T., 1976, *Nature*, London (5572), v. 263, 56-57

acquired resistance to infection with *Schistosoma mansoni* induced by *Toxoplasma gondii*, mice, probably a nonspecific mechanism totally different from that of specific immunity

Immunity, Cross-reactions

Mahoney, D. F.; and Wright, I. G., 1976, *Vet. Parasitol.*, v. 2 (3), 273-282

Babesia argentina, cattle, immunization with killed antigen against infection with heterologous strain, effect of vaccination on certain pathological parameters

Immunity, Cross-reactions

Marcoullis, G.; and Graesbeck, R., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 314-322

Onchocerca volvulus, antigen extracts, preliminary identification and characterization; cross-reactions in immunodiffusion using other helminth antigens and sera from patients with other parasitic diseases

Immunity, Cross-reactions

Markus, M. B., 1973, *N. England J. Med.*, v. 289 (18), 980-981 [Letter]

human *Toxoplasma gondii*, no evidence for cross-reactions of routine serologic tests for toxoplasmosis with sarcosporidiosis and isosporosis

Immunity, Cross-reactions

Martaresche, B.; et al., 1975, *Medecine Trop.*, v. 35 (4), 309-310

human *Plasmodium falciparum*, positive immunofluorescence test for leishmaniasis

Immunity, Cross-reactions

Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, *Immunology*, v. 31 (1), 1-19

Leishmania enriettii, *L. tropica major*, *L. aethiopica*, *L. mexicana amazonensis*, numerical immunotaxonomy, differentiation according to reactivity and cross-reactivity in tests of parasite agglutination, indirect immunofluorescence, and passive cutaneous anaphylaxis

Immunity, Cross-reactions

Michael, S. A.; and Saleh, S. M., 1977, *Trop. Animal Health and Prod.*, v. 9 (4), 241-244

Dipetalonema evansi, camels, slide agglutination test for diagnosis, high number of positives from *D. evansi* infections, no positives in camels infected with *Trypanosoma evansi*

Immunity, Cross-reactions

Mitchell, G. H.; et al., 1977, *Lancet*, London (8026), v. 1, 1335-1338

Plasmodium falciparum, successful vaccination of *Aotus trivirgatus griseimembra* (exper.) with erythrocytic merozoites, immunity specific for *falciparum* malaria, technique for isolating merozoites from infected human blood

Immunity, Cross-reactions

Morzaria, S. P.; et al., 1977, *Research Vet. Sc.*, v. 22 (3), 330-333

Theileria mutans, comparison of British strain with East and South African strains and other *Theileria* spp. using indirect fluorescent antibody test, no cross-reactions were detected, concluded that British strain of *T. mutans* could be a distinct species from African strains of *T. mutans*

Immunity, Cross-reactions

Mpangala, C.; Uilenberg, G.; and Schreuder, B. E. C., 1976, *Tropenmed. u. Parasitol.*, v. 27 (2), 192-196

serological characterization of *Haematoxenus veliferus* from cattle using the indirect fluorescent antibody test, no cross-reactions with either *Theileria parva* or *T. mutans*

- Immunity, Cross-reactions**
Musoke, A. J.; and Williams, J. F., 1976, *Internat. J. Parasitol.*, v. 6 (3), 265-269
intra-peritoneally implanted metacystodes of *Taenia taeniaeformis* or *T. crassiceps* (but not *Echinococcus granulosus* cysts) provoked high resistance to oral challenge with *T. taeniaeformis* eggs, resistance passively transferred with serum (IgG, and IgM most effective), cysticerci implanted into rats with hepatic infections were killed and encapsulated, repeated inoculation of immune serum had no effect on survival of implanted cysticerci
- Immunity, Cross-reactions**
Nelson, G. S., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 273-285
schistosomiasis, filariasis, zoonophylaxis ("the prevention or amelioration of disease in man as the result of previous exposure to heterologous infections of animal origin")
- Immunity, Cross-reactions**
Neppert, J., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 454-463
cross-reacting antigens among some filariae and other helminths, closed hexagonal immunodiffusion technique, implications for serodiagnosis of filariasis
- Immunity, Cross-reactions**
Neppert, J.; and Warns, C.-M., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 492-497
sera from Liberians with various helminthic infections, cross reactions with antigens from *Ascaris*, hookworm, *Onchocerca*, *Dirofilaria immitis*, closed hexagon immunodiffusion, complement fixation reaction, indirect haemagglutination
- Immunity, Cross-reactions**
Norton, C. C.; and Hein, H. E., 1976, *Parasitology*, v. 72 (3), 345-354
Eimeria maxima, comparison of 3 strains (Weybridge, Houghton, and a fresh field isolate), oocyst measurements, pathogenicity, oocyst production, immunity to homologous not heterologous challenge, chickens
- Immunity, Cross-reactions**
Nussenzweig, R. S.; et al., 1973, *J. Immunol.*, v. 110 (2), 600-601
Plasmodium cynomolgi, *P. falciparum*, production of antibodies against sporozoites in rats, no cross-reaction between two species
- Immunity, Cross-reactions**
Oelerich, S., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 296-304
Leishmania spp., *Trypanosoma cruzi*, *Crithidia* sp., *Mycobacterium smegmatis*, antigenic analyses and cross reactions, double gel-diffusion, complement-fixation, indirect haemagglutination
- Immunity, Cross-reactions**
Oelerich, S.; and Nwokolo, C., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 137-146
Paragonimus uterobilateralis, sera from 27 patients, complement fixation, indirect hemagglutination, double gel diffusion, reactions with homologous antigen and cross-reactions with other helminth antigens, disc-electrophoretic analysis of *P. uterobilateralis* antigen: Nigeria
- Immunity, Cross-reactions**
Oelerich, S.; Umaly, R. C.; and Lederer, I., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 318-326
Schistosoma mansoni, different developmental stages, *S. japonicum*, *Fasciola hepatica*, *Ascaris suum*, cross reactions in double gel diffusion, Cerkarien-hüllenreaktion, complement fixation, indirect immunofluorescence, indirect haemagglutination, mice, rabbits
- Immunity, Cross-reactions**
Oelerich, S.; and Volkmer, K. J., 1976, *Tropenmed. u. Parasitol.*, v. 27 (1), 44-49
Paragonimus uterobilateralis, *Paragonimus africanus*, use of passive hemagglutination test in diagnosis, evaluation of treatment measures, and in seroepidemiologic surveys, demonstration of common antigens, comparative studies of immunoglobulin levels and complement fixation not useful
- Immunity, Cross-reactions**
Oteng, A. K., 1973, *Bull. Epizoot. Dis. Africa*, v. 21 (4), 449-459
Uganda strain of *Theileria parva*, cattle (exper.), symptoms, fever, haematology, parasitaemia, pathology, transmission by blood and *Rhipicephalus appendiculatus*, no cross-immunity between strains of *T. parva*
- Immunity, Cross-reactions**
Pampiglione, S.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 62-65
human cutaneous leishmaniasis, leishmanin skin test epidemiologic survey of old endemic areas, statistics, no cross-reactions with tuberculin tests: Italian Adriatic coast
- Immunity, Cross-reactions**
Paris, J.; Wilson, A. J.; and Gray, A. R., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (1), 45-51
Trypanosoma brucei, 11 stabilates (prepared from isolates collected from cattle and tsetse flies in three areas of East Africa), serologic comparison of predominant variant antigens by direct agglutination tests, more sensitive in detection of antigenic relationships than comparisons founded on basic strain antigens
- Immunity, Cross-reactions**
Pereira, N. M.; et al., 1977, *J. Protozool.*, v. 24 (4), 511-514
Crithidia fasciculata, *Herpetomonas samuelpeessoai*, *Leishmania tarentolae*, isolation of flagella, 3 types of flagella give similar electrophoretic pattern of proteins, *H. samuelpeessoai* and to a lesser extent *C. fasciculata* flagella confer protection against *Trypanosoma cruzi* infections in mice

- Immunity, Cross-reactions**
Phillips, T. M.; and Draper, C. C., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 435-436 [Demonstration]
affinity chromatography used to purify *Schistosoma mansoni* egg antigen to remove cross-reactivity with *S. haematobium*, specific antigen isolated
- Immunity, Cross-reactions**
Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, Immunology, v. 32 (5), 681-687
Plasmodium spp., *Babesia microti*, mouse helper T-cell response to parasites measured by using them as carriers for a standard hapten, results show extensive cross-reaction between the 4 parasites as carriers apparently unrelated to known serological cross-reactions but are against the idea that helper T-cells are exclusively responsible for resistance
- Immunity, Cross-reactions**
Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, Immunology, v. 33 (4), 507-515
Plasmodium yoelii, *P. vinckei*, *P. berghei*, mice, regime of killed homologous vaccine plus *Bordetella pertussis* adjuvant, differences between species in effectiveness of protection, some cross-protection but largely species-specific, passive transfer of immunity to *P. yoelii* by serum or spleen cells
- Immunity, Cross-reactions**
Politzar, H., 1974, Tropenmed. u. Parasitol., v. 25 (1), 22-27
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- Immunity, Cross-reactions**
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Bos taurus, chemoprophylactic (oxytetracycline) immunization against *Theileria parva* (*Muguga*) or each of 5 recently-isolated theilerial strains (4 *T. parva* and 1 *T. lawrencei*), response to homologous and heterologous challenge
- Immunity, Cross-reactions**
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Bos taurus immunized either by chemoprophylaxis (oxytetracycline) or sub-lethal infection against various strains of *Theileria lawrencei* or *T. parva*, response to homologous and heterologous challenge
- Immunity, Cross-reactions**
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Bos taurus, chemoprophylactic (oxytetracycline) immunization using a combination of theilerial strains (*Theileria parva* and *T. lawrencei*), response to challenge better than animals immunized with only 1 or 2 strains
- Immunity, Cross-reactions**
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- Immunity, Cross-reactions**
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- Immunity, Cross-reactions**
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Taenia hydatigena, *T. ovis*, *T. pisiformis*, rabbits, cross immunity, penetration of oncospheres into host intestinal epithelium, degree of development in host liver following oral infection with eggs, enhancement of *T. pisiformis* challenge infection following vaccination with *T. ovis* culture antigen
- Immunity, Cross-reactions**
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- Immunity, Cross-reactions**
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- Immunity, Cross-reactions**
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- Immunity, Cross-reactions
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- Immunity, Cross-reactions
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- Immunity, Cross-reactions
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- Immunity, Cross-reactions
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Acanthamoeba castellanii, *A. culbertsoni*, isolation and purity of plasma membrane antigens (electron microscopy, assays of marker enzymes), antisera raised against these antigens tested against homologous and heterologous *Acanthamoeba* spp. in agglutination and immunofluorescence tests, results strongly indicate value of plasma membrane antisera for immunotaxonomy and immunodiagnosis of *Acanthamoeba*
- Immunity, Cross-reactions
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- Immunity, Cross-reactions
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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Leishmania enriettii-infected guinea pigs, delayed hypersensitivity reactions to homologous and heterologous (*L. tropica*, *L. donovani*, *L. tarentolae*) antigens, skin test, blast transformation, macrophage migration inhibition

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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Immunity, Cross-reactions

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- Immunity, Diagnosis. [See also Immunity, Agglutination; Immunity, Complement; Immunity, Enzyme labelling; Immunity, Immobilization; Immunity, Lymphocyte transformation; Immunity, Macrophage migration test; Immunity; Precipitation; Immunity, Radioimmunoassay; Immunity, Skin tests; Immunofluorescence]
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Molyneux, D. H., 1975, Vet. Parasitol., v. 1 (1), 5-17
animal trypanosomiasis, parasitological and immunological diagnostic techniques, review
- Immunity, Diagnosis
Neppert, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 454-463
cross-reacting antigens among some filariae and other helminths, closed hexagonal immunodiffusion technique, implications for serodiagnosis of filariasis
- Immunity, Diagnosis
Oelerich, S.; et al., 1975, Tropenmed. und Parasitol., v. 26 (4), 431-434
diagnosis of human schistosomiasis, serum and blood samples dried on filter paper discs and normal sera collected from infected and control persons, reactions to indirect hemagglutination test higher using cercarial antigens than if using adult *Schistosoma mansoni*, and serum antibody response in dried blood specimens remained sensitive only if stored at low temperatures
- Immunity, Diagnosis
Oelerich, S.; Umaly, R. C.; and Lederer, I., 1974, Tropenmed. u. Parasitol., v. 25 (3), 318-326
Schistosoma mansoni, different developmental stages, *S. japonicum*, *Fasciola hepatica*, *Ascaris suum*, cross reactions in double gel diffusion, Cerkarienhüllenreaktion, complement fixation, indirect immunofluorescence, indirect haemagglutination, mice, rabbits
- Immunity, Diagnosis
Oudart, J. L.; Diallo, B.; and Rolez, S., 1976, Medecine Afrigue Noire, v. 23 (1), 31-37
Trypanosoma brucei gambiense, seroimmunologic diagnosis, immunoglobulins and fluorescent antibodies, standards versus findings in infections
- Immunity, Diagnosis
Owen, D.; and Chessum, B. S., 1977, Vet. Rec., v. 101 (20), 402-404
Toxoplasma spp., sheep, goat, Sabin Feldman dye test, no seasonal fluctuations demonstrated in antibody titres
- Immunity, Diagnosis
Ozcan, K., 1975, Mikrobiyol. Bul., v. 9 (4), 281-290
Toxoplasma gondii, indirect fluorescent antibody technique and Sabin-Feldman dye test compared for diagnosis in patients with eye diseases: Turkey
- Immunity, Diagnosis
Pasmanik, S.; and Atias, A., 1966, Bol. Chileno Parasitol., v. 21 (1), 7-14
human ocular *Toxoplasma gondii*, pathology, diagnosis (presence of rosetta-like macular chorioretinitis or by seroimmunologic testing)
- Immunity, Diagnosis
Piekarski, G.; Saathoff, M.; and Nouri-Nekoui, M. H., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (2), 161-173
Leishmania donovani, rats and hamsters (exper.), patients with kala-azar, indirect immunofluorescence and complement fixation tests for detection of antibodies, failure to apply principle of Sabin-Feldman test
- Immunity, Diagnosis
Pinon, J. M.; and Gentilini, M., 1973, Nouv. Presse Med., v. 2 (19), 1283-1287
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- Immunity, Diagnosis
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differential response of *Brugia pahangi*-sensitized splenocytes to antigens from *Brugia pahangi*, *Dirofilaria immitis*, and *Trichinella spiralis*, possible diagnostic use

- Immunity, Diagnosis
Rifaat, M. A.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 118-120
Toxoplasma gondii, immunoserological survey for toxoplasmosis conducted by randomly sampling the populations of governorates in Egypt
- Immunity, Diagnosis
Ristic, M., 1976, Vet. Parasitol., v. 2 (1), 31-47
intracellular blood protista: intraerythrocytic behavior, transfer, and circulatory clearance; survival and development within macrophages; persistence of organism in immunologically hostile host; immune responses and protection; serodiagnosis; vaccination
- Immunity, Diagnosis
Rotmans, J. P., 1977, Trop. and Geogr. Med., v. 29 (2), 206 [Abstract]
Schistosoma mansoni, isolation and characterization of enzymes present in worm gut for possible use in immunodiagnostic tests
- Immunity, Diagnosis
Rotmans, J. P.; and Deelder, A. M., 1977, Trop. and Geogr. Med., v. 29 (3), 319 [Abstract]
Schistosoma mansoni, purification of schistosome enzymes, possible use for immunodiagnosis
- Immunity, Diagnosis
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- Immunity, Diagnosis
Saathoff, M.; and Dogba, C., 1974, Tropenmed. u. Parasitol., v. 25 (4), 405-412
Schistosoma haematobium, human, prevalence survey, comparison of Cercarien-Hüllenreaktion and indirect immunofluorescent antibody test with one another and with parasitologic diagnosis: south Togo
- Immunity, Diagnosis
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Toxocara canis, larvae, in vitro maintenance, simple method of production of excretory-secretory antigen for use in serodiagnostic tests for visceral larva migrans
- Immunity, Diagnosis
Schenk, M. A. M.; Lima, J. D.; and Viana, F. C., 1976, Arq. Escola Vet. Minas Gerais, v. 28 (3), 261-266
Toxoplasma gondii, frequency in swine, diagnosis, methylene blue dye test (Sabin-Feldman) compared with indirect fluorescent antibody test: Belo Horizonte, Minas Gerais
- Immunity, Diagnosis
Schierz, G.; and von Busch, K., 1976, Munchen. Med. Wchnschr., v. 118 (26), 839-842
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- Immunity, Diagnosis
Schindler, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 290 [Abstract]
Trypanosoma spp., cattle, attempted serologic differential diagnosis gave equivocal results
- Immunity, Diagnosis
Sibalic, D., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 148-152
humans with high Sabin-Feldman dye test titers thought to have toxoplasmosis found apparently also infected with Sarcocystis spp., specimens of their blood were injected into mice and Citellus citellus and Sarcocystis organisms recovered as cystozoites in peritoneal exudate or cysts in musculature; further verification positive using Sarcocystis fusiformis antigen for indirect immunofluorescence on human blood
- Immunity, Diagnosis
Soussi, M. C.; and Alaoui, A., 1970, Maroc Med. (535), v. 50, 314-317
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- Immunity, Diagnosis
Stagno, S.; Saavedra, P.; and Thiermann, E., 1970, Bol. Chileno Parasitol., v. 25 (3-4), 102-105
Toxoplasma gondii, human, diagnosis, indirect immunofluorescence found comparable to Sabin-Feldman dye test
- Immunity, Diagnosis
Stagno, S.; and Thiermann, E., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 9-15
Toxoplasma gondii, use of indirect immunofluorescence test in place of Sabin-Feldman dye test in diagnosis
- Immunity, Diagnosis
Stoll, L.; and Kraft, B., 1976, Deutsche Tierarztl. Wchnschr., v. 83 (4), 137-140
Toxoplasma gondii, swine, diagnosis, indirect fluorescent antibody test for lymph nodes (details of technique described) more sensitive than examination of blood samples by Sabin-Feldman test
- Immunity, Diagnosis
Stray-Pedersen, B.; and Lorentzen-Styr, A.M., 1977, Am. J. Obst. and Gynec., v. 128 (7), 716-721
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- Immunity, Diagnosis
Suzuki, M.; Tsunematsu, Y.; and Waki, S., 1973, J. Protozool., v. 20 (4), 528
Toxoplasma, mechanism of Sabin-Feldman dye test, importance of complement

Immunity, Diagnosis

Thiermann, E.; Apt, W.; and Niedmann, G., 1966, Bol. Chileno Parasitol., v. 21 (3), 82-88

Toxoplasma gondii in humans, review and assessment of current diagnostic methods, seroimmunologic and direct microscopic

Immunity, Diagnosis

Todorovic, R., 1976, Vet. Parasitol., v. 2 (1), 97-109

Babesia spp., cattle, review: serodiagnosis, immunization (sterile immunity; premunition), chemoprophylaxis with imidocarb, vectors: Colombia

Immunity, Diagnosis

Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (1), 1977, 1-15

17. Seminar on Trypanosomiasis (biochemistry and relevance to control; relevance of laboratory studies to tsetse control; field diagnosis; problems of land use and tsetse control)

Immunity, Diagnosis

Tympner, K. D., 1971, Monatschr. Kinderh., v. 119 (7), 287-291

infections of newborn children (including toxoplasmosis), importance of quantitative immunoglobulin determinations (IgM, IgA) in diagnosis and therapy

Immunity, Diagnosis

Umary, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 413-421

various schistosome antigens tested against sera from parasitologically proven human cases of *Schistosoma mansoni* and *S. haematobium*, Cercarienhüllenreaktion, indirect fluorescent antibody test, complement fixation test, indirect haemagglutination test

Immunity, Diagnosis

Umary, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 422-432

Schistosoma haematobium, human, with and without other helminthic infections, serodiagnosis, various schistosome antigens plus *Ascaris suum* and *Fasciola hepatica* tested in Cercarienhüllenreaktion, indirect immunofluorescence, indirect haemagglutination, complement fixation, and double gel diffusion tests, evaluation of sensitivity and specificity, attempt to correlate results of serologic tests with some clinical symptoms and with influence of chemotherapy

Immunity, Diagnosis

Vernes, A.; and Capron, A., 1973, Medecine et Malad. Infect., v. 3 (8-9), 321-327

evaluation of hypersensitivity in diagnosis of human helminthiasis

Immunity, Diagnosis

Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 403-411

Toxoplasma gondii, sheep muscular tissue, incidence correlated with dye test titres and haemoglobin type (higher in type B than A or AB), possible genetic influence on infection, epidemiology, meat inspection: southern Norway

Immunity, Diagnosis

Waldeland, H., 1976, Acta Vet. Scand., v. 17 (4), 426-431

Toxoplasma gondii, sheep, Sabin and Feldman dye test, high correlation between microtiter system and conventional method, advantages of microtiter system

Immunity, Diagnosis

Waller, T., 1977, Lab. Animals, v. 11 (2), 93-97

Encephalitozoon cuniculi, rabbits, rapid diagnosis by india-ink immunoreaction, comparison with indirect fluorescent antibody and skin hypersensitivity tests

Immunity, Diagnosis

Warren, K. S.; et al., 1976, J. Infect. Dis., v. 134 (3), 277-280

Trichinella spiralis, human, murine, eosinophil stimulation promoter test, aid in diagnosis, specificity established by lack of cross-reactions with *Schistosoma mansoni*

Immunity, Diagnosis

Werner, H., 1968, Bol. Chileno Parasitol., v. 23 (3-4), 95-98

Toxoplasma, strains of varying virulence, mouse mortality after oral vs. intraperitoneal infection, variation in dye-test titers in relation to cyclic development of parasite

Immunity, Diagnosis

Whittle, H. C.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, part 1), 1129-1134

Trypanosoma gambiense, measurement of serum and cerebrospinal fluid IgM and correlation with antibody levels measured by enzyme-linked immunosorbent assay, tests in combination superior to each test done singly, immunoglobulin levels in spinal fluid helpful in diagnosing while antibody levels were of no use for diagnosis or prognosis

Immunity, Diagnosis

Yarzabal, L. A.; et al., 1977, J. Parasitol., v. 63 (3), 495-499

antigen 5 of *Echinococcus granulosus* found to also be a component of *E. multilocularis*, radioimmuno-electrophoretic, immunodiffusion, and immunoabsorption studies, implications for immunodiagnosis of hydatid disease

Immunity, Diagnosis

Zardi, O.; et al., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 1-8

Toxoplasma gondii, survey, incidence, chickens, dye test and immunofluorescence, seven strains isolated by inoculation and serial passage in mice: Lazio, vicinity of Rome

Immunity, Diagnosis

Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446

Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunity, Electrophoresis. See Immunity, Precipitation.

Immunity, Enzyme labelling

Bartlett, A.; Bidwell, D. E.; and Voller, A., 1975, *Tropenmed. u. Parasitol.*, v. 26 (3), 370-374

Onchocerca volvulus, evaluation of enzyme immunoassay (ELISA) for the diagnosis of human infections, use of *O. gutturosa* antigens more promising than antigens prepared from various other nematodes

Immunity, Enzyme labelling

Bos, H. J.; van den Eijk, A. A.; and van der Kaay, H. J., 1977, *Nederl. Tijdschr. Geneesk.*, v. 29 (2), 204 [Abstract]

human amoebiasis, comparative evaluation of usefulness of enzyme-linked immunosorbent assay and counter immunoelectrophoresis in diagnosis

Immunity, Enzyme labelling

Bos, H. J.; van der Kaay, H. J.; and van den Eijk, A. A., 1977, *Nederl. Tijdschr. Geneesk.*, v. 121 (7), 287-290

Entamoeba histolytica, evaluation and comparison of counterimmunoelectrophoresis, enzyme-linked immunosorbent assay and fluorescent antibody techniques for human diagnosis

Immunity, Enzyme labelling

Bout, D.; Santoro, F.; and Capron, A., 1975, *Medecine et Malad. Infect.*, v. 5 (12), special no., 631-636

Schistosoma mansoni, identification of circulating immune complexes in infected human serum, characterization of specific antigen

Immunity, Enzyme labelling

Buys, J.; and Ruitenbergh, E. J., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 205 [Abstract]

Trypanosoma brucei, *T. rhodesiense*, comparative application of enzyme-linked immunosorbent assay (ELISA) and immunofluorescence for serodiagnosis of human trypanosomiasis; ELISA represents good alternate method particularly suited for mass screening purposes; cross-reaction only in one person in whom antibodies to *Leishmania* were detected

Immunity, Enzyme labelling

Culbertson, C. G.; and Harper, K., 1977, *Am. J. Clin. Path.*, v. 68 (4), 529-530 [Letter]

E[ntamoeba] histolytica, immunoperoxidase staining in formalin-fixed tissue, diagnostic differentiation from *Acanthamoeba* and other soil amoebas

Immunity, Enzyme labelling

Cypess, R. H.; et al., 1977, *J. Infect. Dis.*, v. 135 (4), 633-640

visceral larva migrans, human, serum precipitating antibodies specific for larval antigens of *Toxocara canis* as determined by double diffusion in agar, enzyme-linked immunosorbent assay was more sensitive and revealed high titers of antibodies to *Toxocara* larvae in all patients with VLM

Immunity, Enzyme labelling

Cypess, R. H.; and Glickman, L. T., 1976, *Mod. Vet. Pract.*, v. 57 (6), 462-464

prevalence of antibody to *Toxocara canis*, human and dogs, enzyme linked immunosorbent assay

Immunity, Enzyme labelling

Deelder, A. M.; et al., 1977, *Exper. Parasitol.*, v. 41 (1), 133-140

Schistosoma mansoni, human, diagnosis, comparison of immunoperoxidase techniques DASS and ELISA, results at least as specific and sensitive as indirect fluorescent antibody technique and with considerable advantages

Immunity, Enzyme labelling

Druilhe, P.; et al., 1977, *Nouv. Presse Med.*, v. 6 (8), 660-661 [Letter]

human *Plasmodium falciparum*, enzyme-labelled antiglobulins in diagnosis using immunoelectrophoresis test

Immunity, Enzyme labelling

Durosoir, J. L.; et al., 1975, *Medecine Trop.*, v. 35 (6), 457-462

use of peroxidase labelled antiglobulins in serological diagnosis of human amoebiasis, schistosomiasis, toxoplasmosis

Immunity, Enzyme labelling

Durosoir, J. L.; Thabaut, A.; and Laverdant, C., 1974, *Medecine et Armees*, v. 2 (7), 627-628

human parasitic diseases, diagnosis, use of globulins labelled with peroxidase, comparison with immunofluorescence

Immunity, Enzyme labelling

Durosoir, J. L.; Thabaut, A.; and Laverdant, C., 1974, *Nouv. Presse Med.*, v. 3 (23), 1507 [Letter]

amoebiasis, toxoplasmosis, schistosomiasis in humans, application of enzyme labelling with peroxidase for immunodiagnosis

Immunity, Enzyme labelling

Glickman, L. T.; and Cypess, R. H., 1977, *Am. J. Pub. Health*, v. 67 (12), 1193-1195

Toxocara canis, epidemiologic survey using the enzyme-linked immunosorbent assay to measure antibodies to *Toxocara* in employees of an animal hospital; results showed that there was no statistical association with either job exposure to dogs or with dog ownership: New York

Immunity, Enzyme labelling

Grelck, H.; and Hoerchner, F., 1977, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 90 (17), 332-335

Fasciola hepatica, cattle, comparative diagnosis using immunofluorescence and immunoperoxidase test

Immunity, Enzyme labelling

Gysin, J.; Le Corroller, Y.; and Pariaud, P., 1975, *Medecine et Malad. Infect.*, v. 5 (12), 560-563

Schistosoma mansoni, comparison of enzyme-labelling and immunofluorescence in sero-immunologic diagnosis of human infections

Immunity, Enzyme labelling

Hommel, M., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 15-16 [Demonstration]

Leishmania donovani, soluble antigen enzyme labelling (ELISA) and enzyme-revealed antibody test (ERAT), use in epidemiologic surveys and field studies

- Immunity, Enzyme labelling
Huldt, G.; et al., 1975, Ann. Trop. Med. and Parasitol., v. 69 (4), 483-488
schistosomiasis, enzyme-linked immunosorbent assay for antibody, possible to detect infection even in cases serologically negative by conventional techniques
- Immunity, Enzyme labelling
van Knapen, F.; Framstad, K.; and Ruitenbergh, E. J., 1976, J. Parasitol., v. 62 (2), 332-333
Trichinella spiralis, reliability of enzyme-linked immunosorbent assay as control method for detection of infections in naturally infected slaughter pigs, compared with direct methods of diagnosis (trichinoscopy; digestion method) and other serological tests (immunofluorescence; counter-electrophoresis; Ouchterlony agar gel diffusion)
- Immunity, Enzyme labelling
van Knapen, F.; Framstad, K.; and Ruitenbergh, E. J., 1976, Tijdschr. Diergeneesk., v. 101 (17), 952-956
Trichinella spiralis, slaughter pigs, detection by enzyme-linked immunosorbent assay, more sensitive than other diagnostic methods
- Immunity, Enzyme labelling
van Knapen, F.; and Panggabean, S. O., 1977, J. Clin. Microbiol., v. 6 (6), 545-547
Toxoplasma gondii, mice, humans, serodiagnosis of active infection, detection of circulating antigen by enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Lagerqvist, B.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 10 [Demonstration]
Schistosoma mansoni in humans, diagnosis using the enzyme linked immune sorbent assay with crude adult worm antigen and purified egg antigen
- Immunity, Enzyme labelling
Luckins, A. G., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 285 [Demonstration]
trypanosomiasis, zebu cattle, serodiagnosis with micro-scale enzyme-linked immunosorbent assay, no cross-reactions with nonpathogenic Trypanosoma theileri or with Theileria spp.
- Immunity, Enzyme labelling
Luckins, A. G.; and Rae, P., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (4), 286 [Demonstration]
Trypanosoma evansi, sera from rabbits infected with clone strains of two isolates (one from West Africa and one from South America), serological comparison using micro-enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Madwar, M. A.; and Voller, A., 1977, Tropenmed. u. Parasitol., v. 28 (1), 57-62
Schistosoma haematobium and S. mansoni in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear
- Immunity, Enzyme labelling
Pinon, J. M.; and Dropsy, G., 1977, J. Immunol. Methods, v. 16 (1), 15-22
various human parasitic diseases, application of enzyme-linked-immuno-electro-diffusion assay (combination of immunoelectrodiffusion and immunoenzyme method), sensitivity and specificity, enables class of immunoglobulins involved to be determined
- Immunity, Enzyme labelling
Pinon, J. M.; and Dropsy, G., 1977, Path. Biol., v. 25 (1), 23-27
human parasitic diseases, use of enzyme-linked-immuno-electro-diffusion-assay (ELIEDA) in diagnosis and immunologic studies
- Immunity, Enzyme labelling
Poels, L. G.; et al., 1977, Exper. Parasitol., v. 42 (1), 182-193
Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection
- Immunity, Enzyme labelling
Purnell, R. E.; et al., 1976, Vet. Rec., v. 99 (6), 102
Babesia divergens, cattle, diagnosis, micro-plate enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Rickard, M. D.; et al., 1977, J. Helminthol., v. 51 (4), 359-364
Echinococcus granulosus (ovine and equine), E. multilocularis, immunohistological localization of antigen 5 and antigen B in cyst wall, brood capsules, and protoscoleces using immunoperoxidase methods
- Immunity, Enzyme labelling
Ruitenbergh, E. J.; et al., 1976, Tijdschr. Diergeneesk., v. 101 (2), 57-70
Trichinella spiralis, conventionally raised pigs with experimental infections at various doses, enzyme-linked immunosorbent assay more sensitive than immunofluorescence test, further ways to improve reliability
- Immunity, Enzyme labelling
Ruitenbergh, E. J.; et al., 1977, J. Immunol. Methods, v. 16 (4), 351-359
enzyme-linked immunosorbent assay (ELISA), mechanization for large scale screening of sera, on-line routing system described
- Immunity, Enzyme labelling
Ruitenbergh, E. J.; and Buys, J., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 31-36
Trypanosoma brucei, enzyme-linked immunosorbent assay (ELISA) for serodiagnosis of human African sleeping sickness, comparison tests with immunofluorescence technique showed good results in rabbits (exper.) and serum from infected humans, cross-reactions only in person with Leishmania antibodies, possible application to epidemiologic surveys

- Immunity, Enzyme labelling
Ruitenbergh, E. J.; and van Knapen, F., 1977, *Vet. Parasitol.*, v. 3 (4), 317-326
Trichinella spiralis, pigs, enzyme-linked immunosorbent assay as diagnostic method, comparison with conventional digestion method
- Immunity, Enzyme labelling
Ruitenbergh, E. J.; and van Knapen, F., 1977, *J. Infect. Dis.*, v. 136, suppl., S267-S273
application of the enzyme-linked immunosorbent assay to the detection of human and animal helminthic and protozoal infections, advantages of assay for seroepidemiology, discussion of performance of assay in tubes and microplates
- Immunity, Enzyme labelling
Ruitenbergh, E. J.; Teppema, J. S.; and Steerenberg, P. A., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 319-326
Trichinella spiralis intestinal phase, no evidence found for immunity-induced changes in enzyme histochemical staining pattern of adult worms, detection of antigen or of antigen-antibody complexes using bridge immunoperoxidase anti-peroxidase technique, immunoglobulins found around cuticle of adult worms even in ATS-treated animals
- Immunity, Enzyme labelling
Saunders, G. C.; et al., 1977, *J. Infect. Dis.*, v. 136, suppl., S258-S266
Trichinella spiralis, application of the indirect enzyme-labeled antibody microtest for the detection of trichinosis in swine, experimental trials testing the feasibility for use in meat packinghouses
- Immunity, Enzyme labelling
Saunders, G. C.; and Clinard, E. H., 1976, *J. Clin. Microbiol.*, v. 3 (6), 604-608
Trichinella spiralis, swine, rapid micro-method for mass screening for antibodies using indirect enzyme-labeled antibody test, high number of false positives
- Immunity, Enzyme labelling
Schinski, V. D.; Clutter, W. C.; and Murrell, K. D., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 824-831
Schistosoma mansoni, S. haematobium, human, immunodiagnosis, enzyme-linked immunosorbent assay and radioimmunoassay compared with indirect hemagglutination and indirect fluorescent antibody techniques
- Immunity, Enzyme labelling
Streefkerk, J. G.; et al., 1975, *J. Immunol. Methods*, v. 8 (3), 251-256
antigen-coupled beads adherent to slides as immunohistochemical means of detecting antibodies in serum by both immunofluorescence (Schistosoma mansoni used as antigen) and immunohistoperoxidase procedures
- Immunity, Enzyme labelling
Streefkerk, J. G.; and Deelder, A. M., 1975, *J. Immunol. Methods*, v. 7 (2-3), 225-235
Schistosoma mansoni, serodiagnostic application of immunohistoperoxidase reactions on antigen-coupled agarose beads
- Immunity, Enzyme labelling
Voller, A.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 5 [Demonstration]
human malaria, application of enzyme-linked immune sorbent assay (E.L.I.S.A.) for diagnosis
- Immunity, Enzyme labelling
Voller, A.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 431-437
human tropical parasitic diseases, comparison of enzyme-immunoassay and radio-immunoassay in detection of antibodies, both assays sensitive and reproducible and gave comparable results
- Immunity, Enzyme labelling
Voller, A.; Bartlett, A.; and Bidwell, D. E., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (2), 98-106
application of enzyme immunoassay to diagnosis of human parasitic diseases, technique for microplate enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Weiland, G.; and Kaggwa, E., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 177
Besnoitia besnoiti, B. jellisoni, rabbits, indirect immunofluorescence tests, enzyme labelling tests
- Immunity, Enzyme labelling
Whittle, H. C.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1129-1134
Trypanosoma gambiense, measurement of serum and cerebrospinal fluid IgM and correlation with antibody levels measured by enzyme-linked immunosorbent assay, tests in combination superior to each test done singly, immunoglobulin levels in spinal fluid helpful in diagnosing while antibody levels were of no use for diagnosis or prognosis
- Immunity, Enzyme labelling
Willms, K.; and Arcos, L., 1977, *Exper. Parasitol.*, v. 43 (2), 396-406
Taenia solium, immunoglobulin and other host serum proteins on cysticercus surface identified by ultrastructural immunoenzyme technique
- Immunity, Eosinophils and eosinophilia
Ansari, A.; and Williams, J. F., 1976, *J. Parasitol.*, v. 62 (5), 728-736
Taenia taeniaeformis, rats, hematologic parameters, reproducible pattern of eosinophilia in peripheral blood and liver, brisk secondary eosinophilic response following challenge in immune animals
- Immunity, Eosinophils and eosinophilia
Ansari, A.; Williams, J. F.; and Musoke, A. J., 1976, *J. Parasitol.*, v. 62 (5), 737-740
Taenia taeniaeformis, rats, stimulation of secondary eosinophilic responses by passive transfer of immune serum or immunoglobulin fractions before oral challenge, probable contribution of antigen-antibody reactions to production of secondary eosinophilic responses

- Immunity, Eosinophils and eosinophilia
Archer, G. T., 1969, Pathology, v. 1 (2), 133-140
Amplificacum robertsi in rats (exper.), antigen-antibody precipitate was chemotactic to eosinophils, phagocytosis of precipitate by eosinophils occurred and was followed by lysis of eosinophil granules and discharge of granular material outside cells, mast cell changes followed eosinophilia and occurred at sites of eosinophil accumulation
- Immunity, Eosinophils and eosinophilia
Archer, G. T.; Robson, J. E.; and Thompson, A. R., 1977, Pathology, v. 9 (2), 137-153
Ascaris suum, Echinococcus granulosus, isolation from both parasites of a phospholipid capable of inducing eosinophilia and mast cell hyperplasia when injected into rats (exper.), phagocytosis found to be complement dependent and eosinophilia possibly resulted from stimulation of alternate complement pathway by the phospholipid
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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Trichinella spiralis-infected mice depleted of eosinophils, no effect on spontaneous expulsion of adult worms from small intestines but numbers of larvae in muscles almost doubled, concluded that eosinophils contribute to resistance to systemic phase of trichinosis
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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Schistosoma mansoni, eosinophil-mediated destruction of eggs, occurred only with antigenically intact eggs and only with eosinophils from Schistosoma mansoni-infected animals (not uninfected or Trichinella spiralis-infected), did not occur with macrophages, neutrophils, or lymphocytes from either normal or infected animals
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
Mackenzie, C. D.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 292-293 [Demonstration]
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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Schistosoma mansoni in congenitally athymic (nude) mice, thymic dependency of eosinophilia, granuloma formation, and host morbidity
- Immunity, Eosinophils and eosinophilia
Ruitenber, E. J., 1977, Trop. and Geogr. Med., v. 29 (3), 319 [Abstract]
Trichinella spiralis-infected nude mice, failure of infections to induce gut mast cell response; both gut and blood eosinophils increased during infection, the phenomenon being T-cell dependent
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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Trypanosoma cruzi, isotopic technique for assaying killing of epimastigotes in which criterion of parasite death is release of macromolecular RNA, use of assay to investigate nature of effector cell killing T. cruzi in antibody-dependent complement-independent system, eosinophils show strong activity, whereas lymphoid K cells seem to have insignificant activity

- Immunity, Eosinophils and eosinophilia
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 Schistosoma mansoni, presence of eosinophil-dependent cytotoxic antibodies (EDCA) in human serum, attempted correlation of levels of EDCA activity with intensity and duration of schistosome infections and with lymphocyte blastogenic response to soluble schistosome antigens
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
 Sturrock, R. F.; et al., 1977, Parasitology, v. 75 (1), 89-100
 Papio anubis, eosinophilia following oral infection with Trichinella spiralis, eosinophilia following intravenous administration of Trichinella spiralis and the effect on subsequent exposure to Schistosoma mansoni, latter appears to be suitable method of experimental induction of non-specific eosinophilia to further investigate possible immune mechanisms to Schistosoma mansoni in the baboon
- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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- Immunity, Eosinophils and eosinophilia
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 Trichinella spiralis, human, murine, eosinophil stimulation promoter test, aid in diagnosis, specificity established by lack of cross-reactions with Schistosoma mansoni
- Immunity, Fluorescent antibody. See Immunofluorescence.
- Immunity, Gel diffusion. See Immunity, Precipitation.
- Immunity, Hemagglutination. See Immunity, Agglutination.
- Immunity, Hypersensitivity, Delayed. See Immunity, Cell-mediated.
- Immunity, Hypersensitivity, Immediate. See Immunity, Allergy.
- Immunity, Immobilization
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 Trypanosoma equiperdum in naturally infected horses, transmission studies, clinical symptoms and lesions, localization of parasite, host immune response, methods for parasite detection, varying results of chemotherapy with MSbE; attempts to infect rats, rabbits, and a dog were unsuccessful: South Africa
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- Immunity, Immobilization
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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Trypanosoma brucei, rabbits, hypotension, possibly caused by trypanosome-antibody complexes and mediated by kallikrein
- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
Capron, A.; et al., 1977, European J. Immunol., v. 7 (5), 315-322
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Babesia rodhaini-infected rats, metabolism of third component of complement and IgG, development of hypocomplementemia and immune complex nephritis
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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Immunity, Immune complexes

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Schistosoma japonicum, rabbits, investigation of possible role of immune complexes in renal pathology and hepatic fibrosis: serum cryogelatinification and cryoprecipitation phenomena; temporal aspects of anti-DNA response

Immunity, Immune complexes

Jones, C. E.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 221-234

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Immunity, Immune complexes

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Immunity, Immune complexes

Kobayashi, A.; Tizard, I. R.; and Woo, P. T. K., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 401-406

Trypanosoma congolense, calves, anemia proved to be of immunological origin, antigen-antibody-complement complexes deposited on surface of erythrocytes results in their immune elimination and leads to clinical anemia

Immunity, Immune complexes

Krettli, A. U.; Nussenzweig, V.; and Nussenzweig, R. S., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 34-41

Plasmodium berghei, mice, level of immune complex release activity from surface of lymphocytes, alternative complement pathway function, C3 levels in serum

Immunity, Immune complexes

Madwar, M. A.; and Voller, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 57-62

Schistosoma haematobium and *S. mansoni* in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear

Immunity, Immune complexes

Mahmoud, A. A. F.; and Woodruff, A. W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 187-188

Schistosoma mansoni in mice (exper.), glomerular nephritis caused by immune complex deposits which contained complement

Immunity, Immune complexes

Miatello, V. R.; Zanetti, N. L.; and Miatello, V. R., hijo, 1974, *Medicina*, Buenos Aires, v. 34 (5), 532-538

excision of echinococcal pulmonary cyst in young girl resulted in disappearance of concurrent nephrotic syndrome, evidence supports immunological process of immune complexes or auto-antibodies as link between two disease processes

Immunity, Immune complexes

Murray, M.; Lambert, P. H.; and Morrison, W. I., 1975, *Medecine et Malad. Infect.*, v. 5 (12), special no., 638-641

Trypanosoma brucei-infected mice develop proliferative immune complex glomerulonephritis

Immunity, Immune complexes

Musoke, A. J.; Cox, H. W.; and Williams, J. F., 1977, *J. Parasitol.*, v. 63 (6), 1081-1088

Plasmodium chabaudi, rats, antigens and antibodies found associated with anemia, splenomegaly, and glomerulonephritis, suggested that soluble complexes of parasite antigen and antibody may have been causal in this syndrome

Immunity, Immune complexes

Natali, P. G.; and Cioli, D., 1976, *European J. Immunol.*, v. 6 (5), 359-364

Schistosoma mansoni-infected mice, immune complex nephritis, incidence of renal involvement correlated with duration and intensity of infection and appeared to be decreased in unisexual infections

Immunity, Immune complexes

Perie, N. M.; Tinnemans-Anggawidjaja, T.; and Zwart, D., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 399-404

Trypanosoma spp. in experimentally infected domestic animals, sandwich immunofluorescent complement fixation test compared with indirect fluorescent antibody test for use in detecting binding of complement to antigen-antibody complex

Immunity, Immune complexes

Petit, A.; et al., 1977, *Ann. Immunol.*, v. 128C (4-5), 937 [Abstract]

Nippostrongylus brasiliensis, rats, circulating immune complexes in serum

Immunity, Immune complexes

Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 43 (1), 255-267

Plasmodium berghei, formation of immune complexes and their role in nephropathies in infected mice in comparison with chloroquine-cured and hyperimmune mice, comparative study on nude mouse model, immune complexes deposited in renal glomeruli of acutely infected and hyperimmune mice but not in glomeruli of infected nude mice, pathological ultrastructural alterations found in glomeruli of first two groups

Immunity, Immune complexes

Slots, J. M. M.; et al., 1977, *Exper. Parasitol.*, v. 43 (1), 211-219

Trypanosoma brucei, *Trypanosoma vivax*, antigen-antibody complexes as cause of platelet serotonin release in vitro and in vivo

Immunity, Immune complexes

Smith, M. D.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 343-348

Schistosoma haematobium, *S. mansoni*, presence of immune complexes (IC) in sera of infected persons, measurement of levels of IC possibly useful in assessing stage of disease and efficacy of treatment

- Immunity, Immune complexes
 Soni, J. L.; and Cox, H. W., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 423-430
 Plasmodium gallinaceum, chickens, soluble complexes of serum antigen and its antibody may be mediator of acute anemia, serologic identity of serum antigen from malarious chickens and from Babesia rodhaini-infected rats and its distinction from parasite antigen suggest that it might be an autoantigenic macroglobulin
- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Immune complexes
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- Immunity, Innate. See Immunity, Native.
- Immunity, Intradermal tests. See Immunity, Skin tests.
- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation
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- Immunity, Lymphocyte transformation**
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- Immunity, Lymphocyte transformation**
Weissberger, H.; Spira, D. T.; and Golenser, J., 1977, J. Protozool., v. 24 (4), 68A [Abstract]
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
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- Immunity, Lysis**
Wellensiek, H. J.; et al., 1976, Ztschr. Immunitaetsforsch., v. 152 (2), 123 [Abstract]
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- Immunity, Macrophage migration test**
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- Immunity, Macrophage migration test**
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Schistosoma mansoni, guinea-pigs, cutaneous basophil hypersensitivity (CBH) reactions to schistosoma eggs or soluble egg antigens (SEA), contact hypersensitivity-like CBH responses to live cercarial challenge by skin penetration in sensitized animals, SEA-induced macrophage migration inhibition in infected guinea pigs manifesting CBH reactions

- Immunity, Macrophage migration test
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- Immunity, Macrophage migration test
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- Immunity, Macrophage migration test
Buening, G. M., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 71-76
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- Immunity, Macrophage migration test
Buening, G. M., 1976, Am. J. Vet. Research, v. 37 (1), 1215-1218
Anaplasma marginale, cell-mediated immune response in splenectomized and intact calves, micro cell-mediated cytotoxicity assay and leucocyte migration-inhibition test compared, no correlation between in vitro assay systems
- Immunity, Macrophage migration test
Camus, D.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 169 [Letter]
Trypanosoma cruzi in humans, application of leucocyte migration inhibition test to study of delayed hypersensitivity to parasitic infection
- Immunity, Macrophage migration test
Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, Am. J. Vet. Research, v. 38 (2), 173-179
Anaplasma marginale, cell-mediated immune response in cattle given virulent, attenuated and inactivated preparations, measured by leucocyte migration-inhibition test and lymphocyte transformation of blood leukocytes
- Immunity, Macrophage migration test
Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, Am. J. Vet. Research, v. 38 (8), 1167-1172
Anaplasma marginale, cows (exper.), cell-mediated immunity and severity of clinical symptoms in response to challenge infection after inoculation with virulent, live attenuated, or killed A. marginale, effect of chemosterilization on residual immunity
- Immunity, Macrophage migration test
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Plasmodium berghei, inhibition of macrophage migration in vitro may be an analog of macrophage disappearance reaction in vivo, mice
- Immunity, Macrophage migration test
Lelchuk, R.; Cardoni, R. L.; and Fuks, A. S., 1977, Clin. and Exper. Immunol., v. 30 (3), 434-438
Trypanosoma cruzi, human, nifurtimox-induced alterations in cell-mediated immunity, detected particularly using peripheral leucocyte migration inhibition
- Immunity, Macrophage migration test
Lelchuk, R.; Patrucco, A.; and Manni, J. A., 1974, J. Immunol., v. 112 (4), 1578-1581
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- Immunity, Macrophage migration test
Liston, A. J., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 6 [Demonstration]
Trypanosoma cruzi, T. dionisii, T. vesperlionis, cell mediated immune responses in mice, some cross-reactivity of antigens but homologous responses stronger
- Immunity, Macrophage migration test
Muhammed, S. I.; Wagner, G. G.; and Lauerman, L. H., jr., 1974, Immunology, v. 27 (6), 1033-1037
Theileria parva, cattle, leucocyte migration inhibition as model for demonstration of sensitized cells in East Coast fever
- Immunity, Macrophage migration test
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patients with amebic abscess of liver, diminished cell-mediated immunity to Entamoeba histolytica antigens when tested by skin tests and for migration-inhibition factor production, skin reactions to unrelated antigen were normal, 10 days after hospital discharge cell-mediated immune responses to E. histolytica antigen were normal, antibodies were present in sera at all stages
- Immunity, Macrophage migration test
Ourth, D. D.; Lunde, M. N.; and Watson, R. R., 1976, Ztschr. Immunitaetsforsch., v. 151 (3), 254-262
Toxoplasma gondii, guinea pigs, demonstration of delayed hypersensitivity by macrophage migration inhibition, skin-testing, and lymphocyte transformation

- Immunity, Macrophage migration test
Perez, M.; Carson, C. A.; and Ristic, M., 1977, *Vet. Parasitol.*, v. 3 (2), 161-167
Babesia microti, hamsters, cell-mediated immune response measured by leukocyte migration inhibition test, comparison with humoral antibody measurements using indirect fluorescent antibody test
- Immunity, Macrophage migration test
Pinon, J. M.; and Gentilini, M., 1973, *Nouv. Presse Med.*, v. 2 (19), 1283-1287
human filariasis, application of cellular immunologic tests (rosette formation, macrophage migration) in diagnosis and comparison with serologic tests (fluorescent antibody, passive hemagglutination, gel diffusion)
- Immunity, Macrophage migration test
Ristic, M.; and Nyindo, M. B. A., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 66-70
Anaplasma marginale, cows inoculated with attenuated vaccine, humoral (complement fixing and agglutinating antibodies) and cell-mediated (macrophage migration inhibition test) immune responses, results demonstrate correlation between cell-mediated immunity and protection
- Immunity, Macrophage migration test
Schmunis, G. A.; et al., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 81-85
Trypanosoma cruzi, mice inoculated with epimastigotes or trypomastigotes, development of cell mediated immunity as shown by inhibition of macrophage migration
- Immunity, Macrophage migration test
Semeraro, N., 1977, *Progr. Med.*, Roma, v. 33 (11), 500-503
Echinococcus granulosus, humans, marked inhibition of leukocyte migration in infected individuals when compared with normal controls
- Immunity, Macrophage migration test
Singh, D. K.; Jagdish, S.; and Gautam, O. P., 1977, *Research Vet. Sc.*, v. 23 (3), 391-392
Theileria annulata, cattle, cell-mediated immunity demonstrated using leukocyte migration inhibition test and delayed skin hypersensitivity reaction
- Immunity, Macrophage migration test
Souza, M. do C.; et al., 1974, *J. Protozool.*, v. 21 (4), 579-584
living culture forms of *Leptomonas pessoai* cross-protected mice against *Trypanosoma cruzi* challenge infection, circulating antibodies detected in immunized mice by immunodiffusion, passive hemagglutination, complement fixation, and antibody binding assay which cross-reacted with *T. cruzi* extracts, cellular immune response indicated by leukocyte migration inhibition
- Immunity, Macrophage migration test
de la Vega, M. T.; Damilano, G.; and Diez, C., 1976, *J. Parasitol.*, v. 62 (1), 129-130
chronic *Trypanosoma cruzi*-infected humans, positive leukocyte migration inhibition test with heart antigens, results suggest cell-mediated immune response against heart tissue could participate in mechanism of myocardial damage in Chagas' disease
- Immunity, Macrophage migration test
Vernes, A.; et al., 1972, *Path. Biol.*, v. 20 (1-2), 23-29
fascioliasis, schistosomiasis, determination of delayed hypersensitivity reactions in guinea pigs (exper.) using the macrophage migration inhibition test and intradermal skin tests; preliminary investigations of human schistosomiasis gave similar reactions
- Immunity, Macrophage migration test
Vernes, A.; et al., 1973, *Path. Biol.*, v. 21 (10), 1073-1078
Schistosoma mansoni and *S. haematobium* in humans, correlations between macrophage migration test, intradermal tests and a macrophage spreading inhibition test for determination of cell-mediated immune reactions
- Immunity, Macrophage migration test
Wong, H. S. W.; Embil, J. A.; and Ozere, R. L., 1976, *Exper. Parasitol.*, v. 40 (3), 421-426
Ascaris suum, *Toxocara canis*, guinea pigs sensitized with egg extract antigens, dermal reactivity, macrophage migration inhibition test, and lymphocyte transformation using homologous and heterologous antigens
- Immunity, Macrophage migration test
Zeledon, R.; de Ponce, E.; and Ponce, C., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 536-537 [Letter]
comparison of Montenegro skin test for delayed hypersensitivity and macrophage migration inhibition test in 3 persons with cured leishmaniasis and woman with chronic *Leishmania braziliensis*
- Immunity, Migration inhibition test. See Immunity, Macrophage migration test.
- Immunity, Native
Bower, S. M.; and Woo, P. T. K., 1977, *Exper. Parasitol.*, v. 43 (1), 63-68
Cryptobia catostomi, use of in vitro plasma incubation test in study of host specificity (plasma of 6 refractive fishes had cryptobiacidal titers) and of host resistance mechanism (suggested that alternate pathway of complement activation is one mechanism of 'natural immunity' by vertebrates that are related to the susceptible host)
- Immunity, Native
Hepler, D. I.; and Lueker, D. C., 1976, *Experientia*, v. 32 (3), 386-387
Nematospiroides dubius, high degree of native resistance of *Peromyscus maniculatus* to infection, infection only established with use of steroid treatment

Immunity, Native

Kierszenbaum, F.; Ivanyi, J.; and Budzko, D. B., 1976, *Immunology*, v. 30 (1), 1-6
Trypanosoma cruzi, chickens, natural resistance, capacity of sera to lyse trypomastigotes in vitro, complement-dependent and antibody-independent phenomena

Immunity, Native

Miller, L. H.; and Carter, R., 1976, *Exper. Parasitol.*, v. 40 (1), 132-146
 mechanisms of innate resistance in malaria, extensive review

Immunity, Passive

Adams, D. B.; and Rothwell, T. L. W., 1977, *Exper. Parasitol.*, v. 42 (1), 121-128
Trichostrongylus colubriformis, guinea pigs, passive transfer of immunity using mesenteric lymph node cells, influence of various factors (immunization schedule for cell donors; size of cell dose transferred; size of challenge dose; age of both cell donors and recipients), rate of worm rejection from recipients

Immunity, Passive

Alger, N. E.; and Harant, J., 1976, *Exper. Parasitol.*, v. 40 (2), 261-268
Plasmodium berghei, mice, vaccination, heat-treated sporozoites administered iv; attempted adoptive transfer of immunity; preliminary sporozoite fractionation studies

Immunity, Passive

Ansari, A.; Williams, J. F.; and Musoke, A. J., 1976, *J. Parasitol.*, v. 62 (5), 737-740
Taenia taeniaeformis, rats, stimulation of secondary eosinophilic responses by passive transfer of immune serum or immunoglobulin fractions before oral challenge, probable contribution of antigen-antibody reactions to production of secondary eosinophilic responses

Immunity, Passive

Barr, M. L.; et al., 1977, *Cellular Immunol.*, v. 33 (2), Oct., 447-451
Plasmodium berghei, transfer of immunity to mice by RNA from spleens and lymph nodes of immune rats

Immunity, Passive

Bedrnik, P., 1977, *J. Protozool.*, v. 24 (2), Suppl., 12A-13A [Abstract]
Eimeria tenella, failure to transfer immunity with immune spleen lymphocytes in vitro or in vivo (chicks)

Immunity, Passive

Behnke, J. M., 1977, *Parasitology*, v. 75 (2), xv [Abstract]
Nematospiroides dubius, inhibition of larval development in immune mice, transfer of immunity by immune serum and syngeneic mesenteric lymph node cells

Immunity, Passive

Bourns, T. K. R.; and Ellis, J. C., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 382-387

Trichobilharzia ocellata in ducklings (exper.), attempted transfer of immunity using lymphoid cells and/or immune serum, results showed some shorter than normal worms or lower numbers of worm eggs passed

Immunity, Passive

Buerger, H. J., 1976, *Zentralbl. Vet.-Med., Reihe B*, v. 23 (9), 705-732
Trichinella spiralis, rats immunized with sensitized cells from spleen, lymph nodes, or thymus eliminated worm burdens earlier than normal cell controls

Immunity, Passive

Buerger, H. J., 1976, *Zentralbl. Vet.-Med., Reihe B*, v. 23 (10), 793-800
Trichinella spiralis, rats, passively immunized during plateau phase with isologous or allogous immune globulin from infected rats, worm burdens and body lengths not changed, PCA titers significantly reduced, IHA antibodies elevated

Immunity, Passive

Burridge, M. J.; and Kimber, C. D., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 305-308
Theileria parva, cattle, levels of antibodies in colostrum of dams recovered from exper. East Coast Fever and in the sera of their calves, indirect fluorescent antibody studies

Immunity, Passive

Cabrera, E. J.; Alger, N. E.; and Silverman, P. H., 1973, *J. Protozool.*, v. 20 (3), 449-452
Plasmodium berghei, rats, adoptive immunity transferred by 2×10^7 or 2×10^8 but not 2×10^6 immune spleen cells, spleen cells kept at 47 C for 45 min were no longer able to transfer protection; capacity to transfer adoptive immunity not found in spleen cells from unexposed adult rats capable of age immunity, but found in spleen cells from rats that had suffered very transient parasitemia

Immunity, Passive

Campbell, G. H.; and Phillips, S. M., 1976, *Infect. and Immun.*, v. 14 (5), 1144-1150
Trypanosoma rhodesiense, mice, adoptive transfer of variant-specific resistance with B lymphocytes and serum but not with T lymphocytes, results implicate antibody-mediated mechanism as having major role in resistance

Immunity, Passive

Chaicumpa, V.; Jenkin, C. R.; and Rowley, D., 1976, *Austral. J. Exper. Biol. and Med. Sc.*, v. 54 (3), 245-252
Nematospiroides dubius, no passive transfer of immunity to normal mice by serum from immune mice, passive transfer of immunity from immunized mice to their offspring, immunity dependent on intake of immunoglobulin via milk for period longer than 24 hours, passive transfer of immunity from immune mothers to neonatal mice does not appear to be dependent on a specific class of immunoglobulins

Immunity, Passive

Church, M. K., 1975, *Immunology*, v. 29 (3), 527-534

Nippostrongylus brasiliensis-sensitized, re-sensitized, or passively sensitized rats, interrelationships of anaphylactic bronchoconstriction, active cutaneous anaphylaxis, and circulating reaginic antibody level

Immunity, Passive

Collins, W. E.; Cedillos, R. A.; and Warren, M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1105-1107

Plasmodium vivax, passage of malaria antibodies from mothers to infants, survey in endemic area using the fluorescent antibody test: El Salvador

Immunity, Passive

Crum, E. D.; Despommier, D. D.; and McGregor, D. D., 1977, *Immunology*, v. 33 (6), 787-795

Trichinella spiralis, rats, immunization by series of methyridine-terminated oral infections with larvae, thoracic duct lymphocytes from immunized animals can protect normal rats against challenge, protective cells belong to 2 different populations, immune serum and lymph fail to transfer resistance

Immunity, Passive

Dargie, J. D.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 249-271

Fasciola hepatica, rats, cattle, sheep, active immunization, passive transfer of immunity by cells and serum, pathogenetic mechanisms underlying development of hepatic fibrosis

Immunity, Passive

Desowitz, R. S., 1971, *Science* (3988), v. 172, 1151-1152

Plasmodium berghei, immunization (with non-living antigen) of young white rats born of immune mothers, significantly higher level of immunity than unvaccinated littermates or vaccinated rats born of normal nonimmune mothers

Immunity, Passive

Desowitz, R. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 238-244

Plasmodium berghei, rats, factors influencing maternally-transmitted protective immunity: effect of duration of maternal infection and of rechallenge; immunogenic activity of non-viable antigen in inducing and maintaining maternally-transmitted immunity

Immunity, Passive

Despommier, D. D.; et al., 1977, *Immunology*, v. 33 (6), 797-805

Trichinella spiralis, influence of immune lymphocytes on life cycle in normal and in irradiated rats, localization of labelled lymphocytes in tissues, evidence that immunity is directed against enteral stage of parasite and is expressed in rapid expulsion of worms from small intestine, immune T cells probably have 'helper' function in promoting formation of protective B cells

Immunity, Passive

Dutta, S. N.; Diesfeld, H. J.; and Kirsten, C., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 479-482

immunofluorescent antibody test using *D[ipetalonema] viteae* as antigen applied to mothers' blood and to the umbilical cord blood of their newborns, results show that in a *Wuchereria bancrofti* endemic area maternal antibodies against filariae are passed via placenta to newborn, findings not demonstrable after 6th month of life: India

Immunity, Passive

Eimontas, Z. I.; and Medzevicius, A. K., 1974, *Lietuvos TSR Moks. Akad. Darbai*, s. C (68) (4), 65-76

Trichocephalus suis, pigs, immunization with gamma globulin from immune and normal pigs, antibody dynamics, investigation by precipitation and agglutination

Immunity, Passive

Emejuaiwe, S. O., 1974, *Bull. Epizoot. Dis. Africa*, v. 22 (1), 41-50

Trypanosoma gambiense, passive immunization of mice with 19S and 7S immunoglobulin fractions derived from immunized rabbits gave transient protection to mice, however, 7S immunoglobulin fractions of sera from rabbits infected with live trypanosomes gave complete protection to mice

Immunity, Passive

Fox, J. C., 1976, *Vet. Parasitol.*, v. 1 (3), 209-220

Obeliscoides cuniculi, inhibited development in rabbits: effects of active and passive immunization and resumption of larval development (fewer males developed than females), data indicate that host immune responses contribute to inhibition and that worm egg production is also responsive to immunologic control

Immunity, Passive

Gaur, S. N. S.; and Dutt, S. C., 1977, *Pantnagar J. Research*, v. 2 (2), 190-191

Ascaris suum, guinea pigs, successful immunization by subcutaneous administration of pooled immune sera, challenge by migrating juveniles of *A. suum*

Immunity, Passive

Gemmell, M. A., 1976, *Research Vet. Sc.*, v. 21 (2), 223-226

Taenia hydatigena, lambs on contaminated pasture, modification of transmission pattern under 5 weeks of age due to change from sucking to grazing behavior and/or immunity passively transferred via colostrum

Immunity, Passive

Gravelly, S. M.; and Kreier, J. P., 1976, *Infect. and Immun.*, v. 14 (1), 184-190

Plasmodium berghei, rats, adoptive transfer experiments with T and B lymphocytes alone or in combination, results argue strongly for immunity transferrable by antibody-producing cells and not by T cells acting in classical cell-mediated immune responses

- Immunity, Passive
Hamburger, J.; and Kreier, J. P., 1976, *Exper. Parasitol.*, v. 40 (2), 158-169
Plasmodium berghei free parasites (but not parasites in erythrocytes) become coated with antibodies after incubation in recovered rat serum (as demonstrated by fluorescent antibody technique), this immune serum did not protect mice against inoculation of free parasites but did protect rats partially or completely, phagocytes ingested parasites more readily in presence of immune vs. normal serum
- Immunity, Passive
Howell, M. J.; Sandeman, R. M.; and Rajasekariah, G. R., 1977, *Internat. J. Parasitol.*, v. 7 (5), 367-371
Fasciola hepatica, infection schedules for production of serum in rats which passively protects naive recipients against infection, in vitro effects of this serum on metacercariae
- Immunity, Passive
Jacobson, R. L.; Zuckerman, A.; and Greenblatt, C. L., 1977, *J. Protozool.*, v. 24 (4), 67A [Abstract]
Plasmodium berghei, rats, adoptive transfer of immunity in allogeneic neonates with spleen cells from hyperimmunized outbred female rats, effect mitigated when young rats are weaned on immune milk
- Immunity, Passive
Ito, A., 1977, *Internat. J. Parasitol.*, v. 7 (1), 67-71
Hymenolepis nana, mice, protective immunity transferred with serum taken from actively immunized mice, major effect of immune serum was damaging hatched oncospheres in both intestinal lumen and villi within 1 day post infection
- Immunity, Passive
Jarra, W.; Hills, L. A.; and Brown, K. N., 1976, *Parasitology*, v. 73 (2), xii [Abstract]
Plasmodium berghei, rats, protection conferred by adoptive transfer of unfractionated spleen cells and T cells alone from donors at various stages of infection, protection conferred by T cells increased with duration of infection in donors, additional presence of B cells in transferred lymphocyte populations enhanced their protective capacity over T cells alone
- Immunity, Passive
Jenkins, S. N., 1977, *Parasitology*, v. 75 (2), xiv [Abstract]
Trichuris muris, mice, cell transfer studies highlight complexity of interaction of humoral and cellular immune response
- Immunity, Passive
Jones, V. E.; and Ogilvie, B. M., 1967, *Internat. Arch. Allergy and Applied Immunol.*, v. 31 (5), 490-504
Nippostrongylus brasiliensis, attempts to transfer protective immunity and reagents passively to young rats in 3 different ways: by maternal milk, by feeding antiserum, and by antiserum given parenterally
- Immunity, Passive
Kasper, L. H.; and Alger, N. E., 1973, *J. Protozool.*, v. 20 (3), 445-449
Plasmodium berghei, mice, adoptive transfer of immunity, effect of number of cells transferred, source of cells (spleen vs. lymph node), and age of host from which they are derived
- Immunity, Passive
Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 509-521
Schistosoma mansoni, mice, intradermal response against soluble cercarial antigenic preparation was sequentially mediated by early antibody response and late developing cellular response as demonstrated histologically and by passive transfer of serum and lymphoid cells
- Immunity, Passive
Kelly, J. D.; and Dineen, J. K., 1972, *Immunology*, v. 22 (2), 199-210
Nippostrongylus brasiliensis, rats, successful adoptive immunization with mesenteric lymph node cells from immune donors
- Immunity, Passive
Houry, P. B.; Stromberg, B. E.; and Soulsby, E. J. L., 1977, *Immunology*, v. 32 (4), 405-411
Ascaris suum, guinea pigs, passive transfer of immunity by cells or serum, significant protection with immune IgG2, IgE + IgG1 and whole immune serum or with lymphocytes from hepatic and mediastinal lymph nodes of immune animals, minimal protection with IgM and IgA, spleen lymphocytes enhanced rather than reduced degree of infection
- Immunity, Passive
Kierszenbaum, F.; and Howard, J. G., 1976, *J. Immunol.*, v. 116 (5), 1208-1211
differences in susceptibility to and immunization against Trypanosoma cruzi (Y and Tulahuen strains) in Biozzi high vs. low responder mice, correlation between antibody-forming potential and susceptibility, protection of low responders by passive transfer of immune plasma
- Immunity, Passive
Kim, C. W.; Fragola, A. C.; and Rega, R. J., 1977, *J. Parasitol.*, v. 63 (6), 1133-1135
Trichinella spiralis, low dose of antigen in combination with Freund's complete adjuvant is effective in inducing and transferring delayed hypersensitivity in the guinea pig as manifested by skin test reactions, typical histopathology and absence of circulating antibody
- Immunity, Passive
Klesius, P. H.; and Fudenberg, H. H., 1977, *Clin. Immunol. and Immunopathol.*, v. 8 (2), 238-246
cattle, transfer of cell-mediated immunity to Eimeria bovis antigen with bovine transfer factor (unfractionated or alcohol precipitates)

- Immunity, Passive
Klesius, P. H.; Kramer, T. T.; and Frandsen, J. C., 1976, *Exper. Parasitol.*, v. 39 (1), 59-68
Eimeria stiedai, rabbits, detection of delayed hypersensitivity by skin testing with oocyst antigen extract, skin reactivity passively transferred with lymphocyte suspensions and cell-free transfer factor but not with serum from infected skin-reactive animals
- Immunity, Passive
Klesius, P. H.; and Kristensen, F., 1977, *Clin. Immunol. and Immunopathol.*, v. 7 (2), 240-252
transfer factor, characterization of biological activity by criteria of passive transfer of delayed hypersensitivity reactivity, lymphocyte stimulation, and protective effects against bovine and rabbit coccidiosis (*Eimeria bovis*, *Eimeria stiedae*)
- Immunity, Passive
Krettli, A. U.; and Brener, Z., 1976, *J. Immunol.*, v. 116 (3), 755-760
Trypanosoma cruzi, trypomastigotes incubated with immune sera, agglutination and decreased infectivity of Y strain, no apparent effect with CL strain, demonstration of antigenic variation, role of humoral immunity further confirmed by protection conferred by passive transfer of antibodies
- Immunity, Passive
Lewis, F. A.; Sher, A.; and Colley, D. G., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 723-726
Schistosoma mansoni, transfer of human plasma obtained from persons with schistosomiasis *mansoni* to CF1 mice was unsuccessful in protecting mice against subsequent infection, lack of protection occurred even though the plasma contained high levels of anti-schistosomular antibody
- Immunity, Passive
Liburd, E. M.; Armstrong, W. D.; and Mahrt, J. L., 1973, *Cellular Immunol.*, v. 7 (3), 444-452
Eimeria nieschulzi in rats, investigation of normal immune response and of adoptive immunity with primed thoracic duct lymphocytes
- Immunity, Passive
Lloyd, S.; and Soulsby, E. J. L., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 231-240
Taenia taeniaeformis, mice, maternal transfer of antibody, placental and transmammary transfer of immunity, passive transfer of immunity by serum or intestinal or colostrum immunoglobulins, indirect haemagglutination and enhanced haemagglutination, immunoglobulin classes involved, antibody on intestinal wall of neonatal mice revealed by indirect fluorescent antibody technique, possible model system for *T. saginata* in calves
- Immunity, Passive
Lloyd, S.; and Soulsby, E. J. L., 1976, *Vet. Parasitol.*, v. 2 (4), 355-362
Taenia saginata, passive transfer of immunity to neonatal calves with immune serum or colostrum immunoglobulins
- Immunity, Passive
Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70
Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)
- Immunity, Passive
Love, R. J.; Ogilvie, B. M.; and McLaren, D. J., 1976, *Immunology*, v. 30 (1), 7-15
Trichinella spiralis, duration of infections in rats (young, adult, and lactating), rapidity of expulsion from previously infected rats, transfer of immunity with antiserum and lymph node cells, ultrastructural signs of antibody damage to worms, results suggest that mechanism of immune expulsion requires both antibody and cells, comparison with *Nippostrongylus brasiliensis*
- Immunity, Passive
McDonald, V.; and Phillips, R. S., 1975, *J. Protozool.*, v. 22 (3), 54A [Abstract]
Plasmodium v[inckei] chabaudi, mice, adoptive transfer of whole spleen cell population vs. populations enriched with either T- or B-lymphocytes
- Immunity, Passive
McDonald, V.; and Phillips, R. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 286 [Demonstration]
Plasmodium chabaudi, mice, adoptive transfer of immunity using B-cell enriched (T-cell depleted) and B-cell depleted (T-cell enriched) spleen cell populations
- Immunity, Passive
McDonald, V.; and Phillips, R. S., 1977, *J. Protozool.*, v. 24 (2), Suppl., 4A [Abstract]
Plasmodium chabaudi, mice, transfer of immune spleen cells and immune serum, protective activity was potentiated in irradiated hosts
- Immunity, Passive
McGhee, R. B., 1976, *Exper. Parasitol.*, v. 39 (1), 88-94
Plasmodium gallinaceum-infected immunoincompetent chicken embryos, changes in blood picture in response to injection of serum from hyperimmunized chickens, results suggest definite role of immunity in anemia accompanying malaria, failure to clarify question of autoimmunity
- Immunity, Passive
McHardy, N., 1977, *Tropenmed. u. Parasitol.*, v. 28 (2), 195-201
Trypanosoma cruzi, strains Y and Tulahuen, passive immunization of mice (exper.) using convalescent mouse anti-T. *cruzi* serum at various times, a single dose most effective when injected on day after homologous infections, Y strain most effectively treated

Immunity, Passive

Maddison, S. E.; Hicklin, M. D.; and Kagan, I. G., 1976, *Exper. Parasitol.*, v. 39 (1), 29-39

Schistosoma mansoni, *Macaca mulatta*, delayed hypersensitivity and reduction in clinical manifestations and in worm burdens conferred by serum and transfer factor from immune or normal rhesus monkeys, results suggest intimate interaction between cellular and humoral immune mechanisms in this host-parasite model

Immunity, Passive

Manger, B. R., 1976, *Parasitology*, v. 73 (2), xiii-xiv [Abstract]

Nematospiroides dubius, mice, anthelmintic-terminated immunizing infections (Cambendazole selected as most active), variation in degree of protection between host strains, timing of termination of immunizing infection indicated exsheathment per se not essential in production of resistance, protection could not be transferred with serum alone

Immunity, Passive

Masihi, K. N.; and Werner, H., 1977, *Experientia*, v. 33 (12), 1586-1587

anti-*Toxoplasma* antibodies administered passively to mice may lead to suppression or enhancement of subsequent antibody response when these animals are later infected with *Toxoplasma gondii*, outcome dependent on infecting strain of *Toxoplasma* and antigen-antibody ratio, implications for possible influence which passively acquired maternal antibody may exert on foetus

Immunity, Passive

Masihi, K. N.; and Werner, H., 1977, *Zentralbl. Bakteriol.*, 1 Abt., Orig., v. 237 (2-3), 405-410

Toxoplasma gondii, mice, kinetics of antibody-mediated suppression of humoral immune response at a cellular level

Immunity, Passive

Miles, M. A.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 286 [Letter]

Trypanosoma cruzi, evidence of prenatal transfer of antibodies across placental membranes or by breast-feeding but no evidence that infants carrying maternal antibodies have passive immunity against infections

Immunity, Passive

Mitchell, G. F.; Goding, J. W.; and Rickard, M. D., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 165-186

Taenia taeniaeformis (*Cysticercus fasciolaris*), mice, antibodies and complement as factors influencing susceptibility/resistance; markedly increased susceptibility of certain complement-deficient mouse strains (in particular, males), of hypothyroid mice, and of cyclophosphamide-treated mice; impressive protective activity of immune serum

Immunity, Passive

Muhammed, S. I.; Lauerman, L. H., jr; and Johnson, L. W., 1975, *Am. J. Vet. Research*, v. 36 (4), Part 1, 399-402

Theileria parva, cattle experimentally infected with standardized suspensions of infected *Rhipicephalus appendiculatus*, treatment with immune serum or concentrated immune globulins, no effect on establishment of infection nor clinical and hematologic changes, immunity seen in cattle recovered from East Coast fever is therefore probably cell-mediated

Immunity, Passive

Musoke, A. J.; et al., 1975, *Immunology*, v. 29 (5), 845-853

Taenia taeniaeformis, passive transfer of resistance to newborn rats via colostrum and milk (not prenatal transmission of antibodies), role of colostrally derived antibodies of defined immunoglobulin classes (evidence of protective activity of γ A, but 7S probably primarily responsible)

Immunity, Passive

Musoke, A. J.; and Williams, J. F., 1975, *Immunology*, v. 29 (5), 855-866

Taenia taeniaeformis, rats, sequential appearance of protective immunoglobulins studied in passive transfer experiments, mechanism of action of 7S γ 2a antibodies, susceptibility of early postconcothelial stages to antibody-mediated attack was complement dependent

Immunity, Passive

Musoke, A. J.; and Williams, J. F., 1976, *Internat. J. Parasitol.*, v. 6 (3), 265-269

intraperitoneally implanted metacystodes of *Taenia taeniaeformis* or *T. crassiceps* (but not *Echinococcus granulosus* cysts) provoked high resistance to oral challenge with *T. taeniaeformis* eggs, resistance passively transferred with serum (IgG, and IgM most effective), cysticerci implanted into rats with hepatic infections were killed and encapsulated, repeated inoculation of immune serum had no effect on survival of implanted cysticerci

Immunity, Passive

Ngwenya, B. Z., 1976, *Cellular Immunol.*, v. 24 (1), 116-122

Trichinella spiralis, effect of lactation on cell-mediated immunity, cell transfer studies with lactating and non-lactating mice, lactogenic hormones apparently suppressed expression of adoptive immunity

Immunity, Passive

Niederhorn, J. Y., 1977, *J. Parasitol.*, v. 63 (6), 1130-1132

Mesocestoides corti, mice, adoptive transfer of protective immunity against tetrahyridia by spleen cells, indicates possible role of cell-mediated immunity

Immunity, Passive

Norby, S. W.; and Alger, N. E., 1977, *Science Biol. J.*, v. 3 (1), 271-279

Plasmodium berghei, mice, successful transfer of adoptive immunity by intramuscular injection of immune spleen cells

- Immunity, Passive
Novak, M., 1977, *J. Parasitol.*, v. 63 (3), 587-588
Mesocostoides corti, mice, transfer of immunity against tetrathyridia by sensitized spleen cells
- Immunity, Passive
Parashar, A.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (6), 474-480
Plasmodium berghei, mice, passive transfer experiments confirm that protection against infection involves both humoral and cellular immune reactions and response to 'processed antigen' produced by sensitized cells, possibly macrophages
- Immunity, Passive
Patton, S., 1977, *Tr. Kentucky Acad. Sc.*, v. 38 (1-2), 56-61
Hymenolepis nana in *Mus musculus* (exper.), role of serum in host immunity and duration of passively transferred protection, data suggest an anamnestic response following a second exposure to eggs, and passive resistance probably was antibody mediated
- Immunity, Passive
Pellerdy, L.; Schrecke, W.; and Duerr, U., 1971, *Parasitol. Hungar.*, v. 4, 115-120
Eimeria stiedai, resistance of newborn laboratory rodents (exper.) to infection
- Immunity, Passive
Perrudet-Badoux, A.; and Binaghi, R. A., 1977, *Immunology*, v. 33 (6), 881-885
Trichinella spiralis, rats, IgE antibodies not transferred from mother to young during lactation nor during pregnancy although they are sometimes secreted in the milk
- Immunity, Passive
Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, *Immunology*, v. 33 (4), 507-515
Plasmodium yoelii, *P. vinckei*, *P. berghei*, mice, regime of killed homologous vaccine plus Bordetella pertussis adjuvant, differences between species in effectiveness of protection, some cross-protection but largely species-specific, passive transfer of immunity to *P. yoelii* by serum or spleen cells
- Immunity, Passive
Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 182-193
Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection
- Immunity, Passive
Preston, P. M.; Dumonde, D. C., 1976, *Clin. and Exper. Immunol.*, v. 23 (1), 126-138
Leishmania tropica in CBA mice as experimental model of leishmaniasis in man: relationship of inoculum dose to size and duration of lesions, antibody production, and delayed hypersensitivity responses; infections manifest both during and after healing stages; immunization with sonicated promastigotes; lymphoid cells from immune mice conferred protection upon recipients
- Immunity, Passive
Rickard, M. D.; Adolph, A. J.; and Arundel, J. H., 1977, *Research Vet. Sc.*, v. 23 (3), 365-367
Taenia saginata, pregnant cows vaccinated with culture antigens conferred passive immunity on their calves via colostrum, these calves were themselves vaccinated with culture antigen at 8 to 10 weeks of age and showed strong immunity to challenge infection
- Immunity, Passive
Rickard, M. D.; and Arundel, J. H., 1974, *Austral. Vet. J.*, v. 50 (1), 22-24
Taenia ovis, lambs, passive protection of at least 9 weeks duration via maternal colostrum antibody from ewes which had been vaccinated before lambing or naturally exposed to infection
- Immunity, Passive
Rickard, M. D.; Boddington, E. B.; and McQuade, N., 1977, *Research Vet. Sc.*, v. 23 (3), 368-371
Taenia ovis, pregnant ewes vaccinated with culture antigens conferred passive immunity on their lambs via colostrum; single vaccination with culture antigens stimulated high level of immunity which persisted for at least 12 months in lambs
- Immunity, Passive
Ringelhann, B.; et al., 1976, *Am. J. Hum. Genet.*, v. 28 (3), 270-279
possible relationships between hemoglobin types and human malarial infection rate, parasite species, parasite density, host age and sex; correlations with transplacental and passive immunity
- Immunity, Passive
Robey, E. L.; and Hanson, W. L., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 338 [Letter]
Trypanosoma cruzi-infected rats (exper.), passive transfer of immunity using spleen cells from sensitized donors evidenced by significantly lower parasitemia and reduced mortalities
- Immunity, Passive
Roberts, J. A.; and Kerr, J. D., 1976, *J. Parasitol.*, v. 62 (3), 485-488
plasma from cattle highly resistant to *B. ophiophila microplus* conferred some resistance to unexposed calves, plasma from hosts of low resistance had no significant effect
- Immunity, Passive
Santoro, F.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1164-1168
Schistosoma mansoni-infected lactating mothers, identification of immunoglobulins, anti-*S. mansoni* antibodies, complement and schistosome antigens in milk confirms the possibility of transfer of immunologically active substances from mother to child during lactation

Immunity, Passive

Seed, J. R., 1977, *Internat. J. Parasitol.*, v. 7 (1), 55-60

Trypanosoma brucei gambiense, relative efficiency of IgM and IgG-type antibodies in presence and absence of complement compared on weight basis by both agglutination and in vitro protection tests, ability to passively transfer immunity in vivo also compared, hypothesized that IgM is responsible for relapse phenomena observed in blood while IgG is more active in extravascular locations

Immunity, Passive

Seitz, H. M., 1976, *Tropenmed. u. Parasitol.*, v. 27 (2), 197-201

Plasmodium berghei infections in neonatally thymectomized mice showed same infection patterns as normal infected mice; cell transfer experiments were unsuccessful in transferring immunity from immune to non-immune animals by transfer of lymphoid cells but acquired immunity destroyed by irradiation could be restored by injection of immune spleen and lymphnode cells

Immunity, Passive

Sher, A.; et al., 1977, *Exper. Parasitol.*, v. 41 (1), 160-166

Schistosoma mansoni, mice, immunoglobulins involved in passive immunization, different subclasses of IgG responsible for protective immunity vs. delayed migration of schistosomula

Immunity, Passive

Smith, H. V.; and Herbert, I. V., 1976, *Immunology*, v. 30 (2), 213-219

Hyostrongylus rubidus, passive transfer of humoral immunity from infected sows to their offspring via colostrum, demonstration that agglutinating antibodies mainly of the IgG class were associated with protection

Immunity, Passive

Soltys, M. A., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 309-322

immunization against protozoan diseases of animals, review

Immunity, Passive

Soulsby, E. J. L., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (1), 28-43

role of host response in parasite control: host-parasite specificity; evasion of host response by parasites; utilization of host response by passive or active immunization, review

Immunity, Passive

Spitalny, G. L.; Rivera-Ortiz, C.-I.; and Nussenzweig, R. S., 1976, *Exper. Parasitol.*, v. 40 (2), 179-188

Plasmodium berghei, mice, effect of splenectomy before and after immunization on development and manifestation of sporozoite-induced immunity, monitoring of protective immunity and production of antisporozoite antibodies (circumsporozoite precipitate and sporozoite neutralization activity), effect of passive transfer of hyperimmune sera

Immunity, Passive

Svoboda, S., 1973, *Acta Vet. Brno*, v. 42 (1), 53-59

Eimeria tenella, White Leghorn chicks, passive transfer of immunity by leucocytes obtained from immunized donors on 16th day after single application of oocysts, intraperitoneal vs. intravenous administration

Immunity, Passive

Takayanagi, T.; and Nakatake, Y., 1976, *Exper. Parasitol.*, v. 39 (2), 234-243

Trypanosoma gambiense, mice, immunologic responses to infection in thymectomized lethally-irradiated recipients of passively transferred thymic cells sensitized with parasitic antigens in vivo, enhanced agglutinin production and protection and phagocytosis

Immunity, Passive

Taranik, K. T.; and Antonov, V. S., 1975, *Veterinariia*, Kiev (42), 95-98

Dictyocaulus filaria, calves immunized with nonspecific gammaglobulin, lambs immunized with anti-*Dictyocaulus* immunoglobulin from cattle, changes in blood proteins after infection

Immunity, Passive

Teixeira, A. R. L.; and Santos-Buch, C. A., 1975, *Immunology*, v. 28 (3), 401-410

Trypanosoma cruzi, rabbits, strong delayed hypersensitivity skin reactions to 2 subcellular fractions from homogenates of suspensions of trypomastigote and amastigote forms, immediate reactions also seen, cell-mediated immunity assayed by experiments which established passive transfer, inhibition of blood mononuclear cell migration, and blast transformation by sensitized lymphocytes

Immunity, Passive

Tsang, C. L.; and Lee, Y. C., 1975, *J. Chinese Soc. Vet. Sc.*, v. 1 (1), 37-41

Isospora felis, puppies, preventive and therapeutic effects of immune serum from adult dogs

Immunity, Passive

Wakelin, D.; and Lloyd, M., 1976, *Parasitology*, v. 72 (3), 307-315

Trichinella spiralis, mice given mesenteric lymph node cells or serum or both from infected donors, acceleration of worm expulsion

Immunity, Passive

Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 74, (3), 215-224

Trichinella spiralis, mice, transfer of immunity with mesenteric lymph node cells: time of appearance of effective cells in donors; expression of immunity in recipients (worm expulsion and impaired worm reproduction may represent independent aspects of immune response)

Immunity, Passive

Warren, K. S.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (5-6), 488-493

Schistosoma mansoni, human early established infections, attempted transfer of cellular immunity using transfer factor, negative results

Immunity, Passive

- Weisman, J.; Goldman, M.; and Pipano, E., 1974, *J. Protozool.*, v. 21 (3), 466 [Abstract]
Babesia bigemina, *B. berbera*, passive transfer of antibodies from cows to calves via colostrum

Immunity, Passive

- Wells, R. A.; and Diggs, C. L., 1976, *J. Parasitol.*, v. 62 (4), 638-639
 protective activity of sera from mice immunized with irradiated *Plasmodium berghei*-infected erythrocytes

Immunity, Passive

- Wikel, S. K.; and Allen, J. R., 1976, *Immunology*, v. 30 (3), 311-316
Dermacentor andersoni, guinea pigs, development of resistance to larvae, resistance passively transferred with viable lymph node cells but not with serum

Immunity, Passive

- Wikerhauser, T., 1975, Vaccination of cattle against cysticercosis /*C. bovis*. Final research report. 33 pp., illus.
Taenia saginata, calves, immunizing trials (homologous and heterologous vaccines, passive immunization with homologous antiserum), highest protection against oral challenge observed in calves receiving intramuscular injection of hatched non-attenuated homologous oncospheres; homologous antiserum proved ineffective; indirect fluorescent antibody test, especially micro-IFAT, useful for herd screening of bovine cysticercosis

Immunity, Passive

- Yuan, L.; and Sell, K. W., 1974, *Immunochemistry*, v. 11 (5), 235-242
Schistosoma mansoni, guinea pigs, development of delayed hypersensitivity in response to antigens extracted from cercariae, successful transfer of cercarial delayed hypersensitivity with lymphoid cells, pronase treatment decreased immunogenicity and antigenicity of cercarial antigens suggesting that protein components play major role

Immunity, Passive

- Zuckerman, A., 1977, *Exper. Parasitol.*, v. 42 (2), 374-446
Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunity, Passive

- Zuckerman, A.; and Jacobson, R. L., 1975, *J. Protozool.*, v. 22 (3), 73A-74A [Abstract]
Plasmodium berghei, rats, adoptive transfer of protection by spleen cells from recovered rats (untreated and pretreated with cyclophosphamide)

Immunity, Passive

- Zuckerman, A.; and Jacobson, R. L., 1976, *Internat. J. Parasitol.*, v. 6 (2), 103-106
Plasmodium berghei, rats, transfer of normal or immune spleen cells induces accelerated fluorescent antibody response, only immune cells induce protection against challenge; pre-treatment of donors with cyclophosphamide depletes spleens but affects neither antibody response nor protection-inducing potential in recipients

Immunity, Phagocytosis

- Akiyama, H. J.; and Haight, R. D., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 539-545
 transformation of promastigote forms of *Leishmania donovani* during parasite-host macrophage interactions, phase-contrast microscopical study

Immunity, Phagocytosis

- Archer, G. T., 1969, *Pathology*, v. 1 (2), 133-140
Amplicaeum robertsi in rats (exper.), antigen-antibody precipitate was chemotactic to eosinophils, phagocytosis of precipitate by eosinophils occurred and was followed by lysis of eosinophil granules and discharge of granular material outside cells, mast cell changes followed eosinophilia and occurred at sites of eosinophil accumulation

Immunity, Phagocytosis

- Archer, G. T.; Robson, J. E.; and Thompson, A. R., 1977, *Pathology*, v. 9 (2), 137-153
Ascaris suum, *Echinococcus granulosus*, isolation from both parasites of a phospholipid capable of inducing eosinophilia and mast cell hyperplasia when injected into rats (exper.), phagocytosis found to be complement dependent and eosinophilia possibly resulted from stimulation of alternate complement pathway by the phospholipid

Immunity, Phagocytosis

- Areekul, S.; et al., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (4), 474-480
Plasmodium knowlesi in *Macaca mulatta*, alteration of liver blood flow and phagocytic activity of reticuloendothelial system in infected monkeys with return to normal values after recovery

Immunity, Phagocytosis

- Areekul, S.; Chantachum, Y.; and Thaijongrak, K., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (4), 598-600
Plasmodium knowlesi infected *Macaca mulatta*, measurement of increased erythrophagocytic activity during infection

Immunity, Phagocytosis

- Bear, P. D., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 16-18
Anaplasma marginale, biochemical and immunological nature, brief review: nucleic acids; opsonins and autoimmunity

- Immunity, Phagocytosis
Brzosko, W. J.; et al., 1976, National Cancer Inst. Monograph (43), 163-169
Pneumocystis carinii, infants, immunofluorescence and immunoelectron microscopic study of tissue, antibodies are essential in elimination of P. carinii through their opsonization of the organisms, disintegration of P. carinii conglomerates subsequent to binding of complement to immune complexes preceded their phagocytosis, replication of P. carinii at rate leading to clinical symptoms is due to impaired and delayed synthesis both of specific antibodies and of complement
- Immunity, Phagocytosis
Cantrell, W.; and Elko, E. E., 1976, Exper. Parasitol., v. 40 (2), 281-285
Wistar and Sprague-Dawley strains of rat differ in their ability to maintain phagocytic hyperactivity toward colloidal carbon during Plasmodium berghei infection
- Immunity, Phagocytosis
Cheng, T. C.; and Yoshino, T. P., 1976, J. Invert. Path., v. 28 (1), 143-146
lipase activity in hemolymph of Biomphalaria glabrata challenged with bacterial lipids
- Immunity, Phagocytosis
Dennis, M. V.; Klesius, P. H.; and Dixon, C. F., 1976, J. Alabama Acad. Sc., v. 47 (3), 116 [Abstract]
Eimeria stiedai sporozoites, rabbit peritoneal macrophages, cell-mediated immune response, phagocytosis in presence or absence of serum, immune rabbit serum has no significant effect on phagocytosis
- Immunity, Phagocytosis
Erp, E. E.; and Fahrney, D., 1976, Am. J. Vet. Research, v. 37 (5), 607-609
Anaplasma marginale, splenectomized cattle, increases in serum concentration of phagocytosis-stimulating factor and acceleration of erythrophagocytosis; factor may be new hormone
- Immunity, Phagocytosis
van Furth, R.; and Jones, T. C., 1975, Infect. and Immun., v. 12 (4), 888-890
mouse peritoneal macrophages that have ingested killed Toxoplasma, hydrocortisone had no effect on phagosome-lysosome interaction, no change in intracellular microbicidal activity in macrophages treated with glucocorticosteroids
- Immunity, Phagocytosis
Gross, W. B., 1976, Poultry Science, v. 55 (4), 1508-1512
Eimeria necatrix, chickens with high levels of plasma corticosterone housed in environment of considerable social interaction had more active phagocytic defense and fewer schizonts than chickens with low levels of plasma corticosterone housed in environment with minimized social interaction
- Immunity, Phagocytosis
Hamburger, J.; and Kreier, J. P., 1976, Exper. Parasitol., v. 40 (2), 158-169
Plasmodium berghei free parasites (but not parasites in erythrocytes) become coated with antibodies after incubation in recovered rat serum (as demonstrated by fluorescent antibody technique), this immune serum did not protect mice against inoculation of free parasites but did protect rats partially or completely, phagocytes ingested parasites more readily in presence of immune vs. normal serum
- Immunity, Phagocytosis
Herman, R., 1977, Exper. Parasitol., v. 42 (1), 211-220
Plasmodium chabaudi, physical interaction in vitro between splenic lymphocytes from immune mice and syngeneic peritoneal macrophages which had phagocytized and processed infected red cells, specific antigen-mediated binding of sensitized lymphocytes to macrophage membranes was demonstrated, interaction possible expression of role for T cells in immunity in rodent malaria
- Immunity, Phagocytosis
Jeong, K. H.; and Heyneman, D., 1976, J. Invert. Path., v. 28 (3), 357-362
uninfected Biomphalaria glabrata, morphology and behavior of granulocytic leukocytes in vitro
- Immunity, Phagocytosis
Johnson, P. T., 1977, J. Invert. Pathol., v. 29 (3), 308-320
Paramoeba perniciososa in Callinectes sapidus, seasonal and geographic distribution, symptoms and diagnosis, tissue location, morphology, and replication, pathology, host defense reactions, laboratory transmission: Chincoteague Bay, Virginia; Long Island Sound, Connecticut; Sandy Hook Bay, New Jersey
- Immunity, Phagocytosis
Kitchen, A. G.; and Di Luzio, N. R., 1971, J. Reticuloendothel. Soc., v. 9 (3), 237-247
Plasmodium berghei, rats, functional state of reticuloendothelial system during course of infection, evaluation in vitro of serum recognition factor activity and hepatic phagocytosis
- Immunity, Phagocytosis
Kreier, J. P., 1976, Vet. Parasitol., v. 2 (1), 121-142
Plasmodium berghei, rats, mechanisms for implementation of immune response by humoral antibody and phagocytes, changes in cellular systems upon which development of immune response is dependent, review
- Immunity, Phagocytosis
Kress, Y.; et al., 1977, Exper. Parasitol., v. 41 (2), 385-396
Trypanosoma cruzi, fate of phagocytized parasites in normal and BCG-activated mouse peritoneal macrophages previously labeled with thorium dioxide to permit lysosomal visualization, both activated and normal macrophages could control infections but activated cells could control significantly greater infection

Immunity, Phagocytosis

- Krishnan, S.; et al., 1976, *J. Nutrition*, Bethesda, v. 106 (6), 784-791
Plasmodium berghei, vitamin A protein energy, undernourished rats, increased susceptibility to infection, lower host phagocytosis

Immunity, Phagocytosis

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Ascaris suum larvae, adhesion and degranulation of polymorphonuclear leukocytes on surface, evaluation of serum components which are responsible for opsonization

Immunity, Phagocytosis

- Lewis, D. H.; and Besso, A., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 113-114 [Demonstration]
Leishmania m. mexicana, possible inactivation of host cell lysosomal enzyme activity within parasitophorous vacuoles by intracellular *Leishmania* in order to avoid digestion

Immunity, Phagocytosis

- Lewis, D. H.; and Peters, W., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (3), 295-312
Leishmania spp., promastigote forms, relationship between parasites and host macrophages and their relevance to intracellular survival of parasites, resistance of intracellular *Leishmania* to digestion by lysosomal enzymes

Immunity, Phagocytosis

- Lindberg, R. E.; and Frenkel, J. K., 1977, *Infect. and Immun.*, v. 15 (3), 855-862
Toxoplasma gondii and *Besnoitia jellisoni* in vitro in hamster peritoneal exudate cells, antigenic stimulation of peritoneal cells and expression of immunity, inhibition of parasite growth by peritoneal macrophages armed either specifically or nonspecifically, expression of immunity by cells derived from hamsters treated with cortisol, effects of cortisol on (1) immune and non-immune lymphocytes, (2) arming of macrophages by lymphocytes, (3) the ability of peritoneal macrophages to destroy antibody-treated parasites

Immunity, Phagocytosis

- Loose, L. D.; and Di Luzio, N. R., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 221-228
Plasmodium berghei, mice, temporal relationship between reticuloendothelial system phagocytic alterations and antibody responses, implications for mechanism of malaria-induced immunosuppression

Immunity, Phagocytosis

- MacCallum, D. K., 1969, *J. Reticuloendothel. Soc.*, v. 6 (3), 232-252
Plasmodium berghei-infected *Mesocricetus auratus*, sequential changes demonstrated by hepatic system of macrophages during acute infection and after treatment, evidence indicates that macrophages containing endogenous pigment formed by disease process react in identical fashion to macrophages containing exogenous particulate matter (carbon)

Immunity, Phagocytosis

- Michelson, E. H., 1975, *Invert. Immun.* (Maramorosch and Shope), 181-195
 gastropod molluscs, cellular defense mechanisms and histopathologic alterations, review

Immunity, Phagocytosis

- Murray, M.; et al., 1974, *Research Vet. Sc.*, v. 16 (1), 77-84
Trypanosoma brucei, 3 aspects of pathology in rats: progressive alteration in immunological apparatus of lymph nodes, spleen, and thymus, increase in activity of mononuclear phagocytic system; haemopoietic system changes, haemolytic anemia; specific organ damage (heart most markedly affected)

Immunity, Phagocytosis

- Nogueira, N.; Gordon, S.; and Cohn, Z., 1977, *J. Exper. Med.*, v. 146 (1), 157-171
Trypanosoma cruzi, mice, modification of macrophage function during infection, microbicidal activity against trypomastigotes, other parameters of macrophage activation (secretion of plasminogen activator and phagocytosis mediated by C3 receptor)

Immunity, Phagocytosis

- Ortiz-Ortiz, L.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 50 (2), 232-242
Trypanosoma cruzi-infected mice, development of nonspecific resistance to challenge with *Listeria monocytogenes*, association with increased mononuclear phagocytic activity

Immunity, Phagocytosis

- Osaki, H.; et al., 1973, *J. Protozool.*, v. 20 (4), 520
 in vitro protective responses of lymphoid cells from *Trichomonas foetus*-immunized mice

Immunity, Phagocytosis

- Purvis, A. C., 1977, *Parasitology*, v. 75 (2), 197-205
Babesia microti, mice, temporary immunodepression of humoral immune response to sheep red blood cells, cell-mediated responses apparently unaffected, phagocytic activity is increased

Immunity, Phagocytosis

- Rabinowitz, H.; and Spira, D. T., 1973, *J. Protozool.*, v. 20 (4), 533
Leishmania tropica-infected macrophages, suppression of phagocytic activity, increased stimulation of lysosomal activity, increased acid phosphatase activity

Immunity, Phagocytosis

- Rose, M. E., 1974, *Infect. and Immun.*, v. 10 (4), 862-871
Eimeria tenella, *E. maxima*, chickens, phagocytosis of sporozoites and sporocysts in vitro by peritoneal exudate cells from immunized animals, role of antibody, species-specificity

- Immunity, Phagocytosis
Rose, M. E., 1975, *J. Protozool.*, v. 22 (3), 55A [Abstract]
Eimeria tenella, sporozoites, interactions with phagocytic cells from normal vs. infected chickens
- Immunity, Phagocytosis
Sawyer, T. K., 1976, *Tr. Am. Micr. Soc.*, v. 95 (2), 271 [Abstract]
phagocytic nodules in *Cancer irroratus* and *Homarus americanus* due to *Paramoeba perniciosa*: Sandy Hook Bay, New Jersey and/or New York Bight apex
- Immunity, Phagocytosis
Scorza, C.; and Scorza, J. V., 1972, *J. Reticuloendothel. Soc.*, v. 11 (6), 604-616
Trypanosoma cruzi, rats, active phagocytosis of parasites by inflammatory macrophages in auricles of heart 11 days after infection, formation of phagosomes and of phagolysosomes and alterations in ingested parasites, role of acid phosphatase in alterations of phagocytized parasites
- Immunity, Phagocytosis
Shirahata, T.; Shimizu, K.; and Suzuki, N., 1976, *Ztschr. Parasitenk.*, v. 49 (1), 11-23
Toxoplasma, effects of immune lymphocyte products and serum antibody on parasite multiplication in murine peritoneal macrophages
- Immunity, Phagocytosis
Silverstein, S. C., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 161-169
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- Immunity, Phagocytosis
Sinden, R. E.; and Smalley, M. E., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 344-345
Plasmodium falciparum gametocytes, phagocytosis by leucocytes in vivo (in blood meal within Anopheles gambiae midgut) and in vitro, much higher percentage ingested in vitro
- Immunity, Phagocytosis
Sinden, R. E.; and Smalley, M. E., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 381-382 [Demonstration]
Plasmodium falciparum, ingestion of gametocytes of Plasmodium by leucocytes in the bloodmeal of mosquitoes, comparison with incidence of ingestion of activated gametocytes in vitro
- Immunity, Phagocytosis
Stadtsbaeder, S.; Nguyen, B. T.; and Calvin-Preval, M. C., 1975, *Ann. Immunol.*, v. 126C (4), 461-474
Toxoplasma gondii, mice, immunization with living parasites concomitant to cotrimoxazol treatment, phagocytosis/penetration and intracellular multiplication of Toxoplasma in normal or immune macrophages in the absence or presence of specific antibodies
- Immunity, Phagocytosis
Takayanagi, T.; and Nakatake, Y., 1976, *Exper. Parasitol.*, v. 39 (2), 234-243
Trypanosoma gambiense, mice, immunologic responses to infection in thymectomized lethally-irradiated recipients of passively transferred thymic cells sensitized with parasitic antigens in vivo, enhanced agglutinin production and protection and phagocytosis
- Immunity, Phagocytosis
Takayanagi, T.; and Nakatake, Y., 1977, *Exper. Parasitol.*, v. 42 (1), 21-26
Trypanosoma gambiense, loss of binding activity by which rat antibody is bound to macrophages as result of removing Fc portion of IgG by enzymatic digestion, avidity of antibody for heterologous macrophages
- Immunity, Phagocytosis
Takayanagi, T.; Nakatake, Y.; and Kato, H., 1977, *Exper. Parasitol.*, v. 43 (1), 196-202
Trypanosoma gambiense, agglutination and binding of trypanomastigotes to macrophages in terms of different antigen-antibody ratios
- Immunity, Phagocytosis
Takayanagi, T.; Nakatake, Y.; and Kato, H., 1977, *Exper. Parasitol.*, v. 43 (2), 414-422
Trypanosoma gambiense, antigens involved in immune binding to mammalian host macrophages followed by phagocytosis
- Immunity, Phagocytosis
Tanowitz, H.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (1), 25-33
Trypanosoma cruzi, ultrastructural study of entry of epimastigotes and trypomastigotes into L-cells and normal and activated macrophages in vitro
- Immunity, Phagocytosis
Von Behren, L. A.; and Pesanti, E. L., 1977, *Am. Rev. Resp. Dis.*, v. 115 (4, pt. 2), 271 [Abstract]
Pneumocystis carinii, inability to replicate within normal macrophages, parasites quickly ingested and rapidly killed by normal macrophages in vitro
- Immunity, Phagocytosis
Young, A. S.; Kanhai, G. K.; and Stagg, D. A., 1975, *Research Vet. Sc.*, v. 19 (1), 108-110
Trypanosoma congolense, phagocytosis by circulating macrophages in Syncerus caffer: near Aitong, Mara region, Kenya
- Immunity, Phagocytosis
Ziessman, H. A., 1976, *J. Nuclear Med.*, v. 17 (9), 794-796
increased lung uptake of sulfur colloid during liver scan in human and experimental malaria due to enhanced activity of phagocytic cells of the reticuloendothelial system of liver, spleen, and lung

Immunity, Precipitation

- Abdalla, R. E., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1135-1138
human Sudan mucosal leishmaniasis, diagnosis comparing use of immunodiffusion, counter-immunoelectrophoresis, and immunofluorescence

Immunity, Precipitation

- Abioye, A. A., 1976, *J. Trop. Med. and Hyg.*, v. 79 (11), 252-255
Entamoeba histolytica, drug (emetine, metronidazole) and immuno-diagnostic (fluorescent antibody, gel diffusion and latex agglutination tests) resistant amoebic hepatic abscess in man, case report, blood-abscess cavity barrier postulated as possible mechanism for diagnostic failure: Nigeria

Immunity, Precipitation

- Afchain, D.; et al., 1975, *Medecine Afrique Noire*, v. 22 (5), 351-360
Trypanosoma (Trypanozoon) brucei gambiense, human diagnosis using immunoelectrophoresis, little evidence for autoimmunity in human sleeping sickness

Immunity, Precipitation

- Aguilar-Torres, F. G.; Rytel, M. W.; and Kagan, I. G., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (5), 667-670
Trypanosoma cruzi, human, comparison of counterimmunoelectrophoresis with latex agglutination and indirect hemagglutination in detection of antibodies, use as epidemiologic tool

Immunity, Precipitation

- Ahluwalia, J. S., 1977, *Indian J. Animal Sc.*, v. 45 (12), 1975, 978-980
Cooperia curticei, sheep (exper.), gel-precipitin tests, results indicate that antibodies can be formed locally in alimentary tract, and circulating antibodies of serum detected earlier than mucous samples

Immunity, Precipitation

- Ahluwalia, S. S., 1972, *Indian J. Animal Sc.*, v. 42 (11), 955-956
Schistosoma incognitum, pigs (exper.), circum-oval precipitin test

Immunity, Precipitation

- Aiyedun, B. A.; and Amodu, A. A., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 67-71
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Immunity, Precipitation

- Ardehali, S.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (6), 481-485
human echinococcosis, evaluation of counter immuno-electrophoresis (CIEP), crossed electro-immunodiffusion, and agar gel diffusion for immunodiagnosis, results suggest that (CIEP) could be useful for both diagnosis and epidemiologic surveys

Immunity, Precipitation

- Arnaud, J. P.; and Richard-Lenoble, D., 1976, *Medecine Infant.*, v. 83 (1), 37-46
Leishmania donovani in infants, clinical aspects and differential diagnosis

Immunity, Precipitation

- Arnaudov, D.; et al., 1976, *Vet. Med., Praha*, v. 49, v. 21 (6), 375-384
Toxoplasma gondii, sheep, immunoelectrophoretic study by hemagglutination, indirect fluorescence, and microprecipitation reaction in agar gel; higher incidence in aborting ewes and in sheep in montane regions: Bulgaria; Czechoslovakia

Immunity, Precipitation

- Balbo, T.; et al., 1973, *Ann. Fac. Med. Vet. Torino*, v. 20, Suppl., 33-71
Fasciola hepatica, cattle (exper.), clinical and diagnostic aspects (coprology; blood picture; serum proteins; immunological determination of albumins and globulins; serum enzymes; bilirubin; BSF; serum minerals; body weight gain)

Immunity, Precipitation

- Barrett-Connor, E.; et al., 1976, *J. Infect. Dis.*, v. 133 (4), 473-477
Trichinella spiralis, outbreak in campers after eating roasted wild pig, diagnosis by eosinophilia and sero-immunologic studies; diagnostic test comparisons, skin-test antigen inconclusive: California (infected in Hawaii)

Immunity, Precipitation

- Behforouz, N.; Rezai, H. R.; and Gettner, S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (3), 293-301
Leishmania spp., immunofluorescence used to detect antibodies in humans, mice and guinea pigs using heterologous and homologous antigens; immunoelectrophoretic identification of active fraction of guinea pig antibody

Immunity, Precipitation

- Bidwell, D.; and Voller, A., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 6 [Demonstration]
Plasmodium spp., counter immunoelectrophoresis studies on development of precipitating antibodies

Immunity, Precipitation

- Bos, H. J.; van den Eijk, A. A.; and van der Kaay, H. J., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 204 [Abstract]
human amoebiasis, comparative evaluation of usefulness of enzyme-linked immunosorbent assay and counter immunoelectrophoresis in diagnosis

Immunity, Precipitation

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Entamoeba histolytica, evaluation and comparison of counterimmunoelectrophoresis, enzyme-linked immunosorbent assay and fluorescent antibody techniques for human diagnosis

- Immunity, Precipitation
Boulard, C.; and Petithory, J., 1977, Vet. Parasitol., v. 3 (3), 259-263
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- Immunity, Precipitation
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- Immunity, Precipitation
Bout, D.; Santoro, F.; and Capron, A., 1975, Medecine et Malad. Infect., v. 5 (12), special no., 631-636
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- Immunity, Precipitation
Cabrera, B. D., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (4), 495-504
Schistosoma japonicum, evaluation of blood circumoval precipitin test (filter paper) for diagnostic field surveys, comparison with use of stool formalin-ether technique: Leyte, Philippines
- Immunity, Precipitation
Chen, D. H.; Nussenzweig, R. S.; and Collins, W. E., 1976, J. Parasitol., v. 62 (4), 636-637
rat antisera against sporozoites of 6 primate *Plasmodium* spp. reacted in circum-sporozoite precipitation tests only with sporozoites of homologous species, geographically different strains of same species cross-reacted intensely however
- Immunity, Precipitation
Chernin, J., 1977, J. Helminth., v. 51 (2), 137-142
Taenia crassiceps, mice, production of precipitating antibodies in relation to duration of infection and volume of metacystodes, pattern of development of antigen-antibody precipitation system
- Immunity, Precipitation
Chmielewski, J.; Jaremin, B.; and Zdrojewski, J., 1974, Polskie Arch. Med. Wewn., v. 51 (1), 91-94
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- Immunity, Precipitation
Chun, M. L.; and Cross, J. H., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (4), 625-630
Entamoeba histolytica, comparison of hemagglutination, counterimmuno-electrophoresis and immunoelectrophoresis test for detecting antigen-antibody reactions in human serum, greatest number of components demonstrated by two-dimensional electrophoresis
- Immunity, Precipitation
Cornish, J.; LeFlore, W. B.; and Smith, B. F., 1976, Tr. Am. Micr. Soc., v. 95 (2), 266-267 [Abstract]
Cysticercus fasciolaris, sensitivity of micro-precipitin, agar-gel precipitin, immunoelectrophoresis, and indirect hemagglutination tests; cross-reaction with *Taenia crassiceps*, no cross-reaction with *T. saginata* and *Echinococcus granulosus*
- Immunity, Precipitation
Cottrell, B., 1976, Parasitology, v. 73 (2), xxxiv [Abstract]
Cryptocotyle lingua and *Rhipidocotyle johnstonei* induced temperature-dependent precipitin response in *Pleuronectes platessa*; *Trypanosoma platessae*-infected *P. platessa* had elevated serum beta-globulin levels, pronounced seasonal variation in numbers of infected fish pointed to temperature-controlled immunity
- Immunity, Precipitation
Cottrell, B., 1977, Parasitology, v. 74 (1), 93-107
Cryptocotyle lingua, *Rhipidocotyle johnstonei*, metacercariae-infected *Pleuronectes platessa*, humoral immune response, precipitating antibodies are macroglobulins resembling IgM of mammals, rate and magnitude of antibody production determined by ambient temperature
- Immunity, Precipitation
Crider, C. R.; and Meade, T. G., 1975, Proc. Helminth. Soc. Washington, v. 42 (1), 21-24
Posthodiplostomum minimum, antibody-antigen precipitin tests and immunofluorescence microscopy as useful methods for studies on origin of cyst wall, indicate both fish and parasite origin for total wall
- Immunity, Precipitation
Cypess, R. H.; et al., 1977, J. Infect. Dis., v. 135 (4), 633-640
visceral larva migrans, human, serum precipitating antibodies specific for larval antigens of *Toxocara canis* as determined by double diffusion in agar, enzyme-linked immunosorbent assay was more sensitive and revealed high titers of antibodies to *Toxocara* larvae in all patients with VLM
- Immunity, Precipitation
Dafalla, A. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 146-147
Toxocara canis, *T. cati* in humans, immunodiagnosis using the capillary-tube precipitin test, cross reaction with *Ascaris* could be eliminated by absorption with *Ascaris* antigen
- Immunity, Precipitation
De Carli, G. A.; and Guerrero, J., 1976, Rev. Latinoam. Microbiol., v. 18 (3), 167-171
Tritrichomonas suis and *T. foetus*, antigenic comparison by gel immunodiffusion; closely related antigenic structure found

- Immunity, Precipitation
Deelder, A. M.; et al., 1975, Ztschr. Parasitenk., v. 47 (2), 111-118
Schistosoma mansoni, *S. haematobium*, human sera, various immunoprecipitation techniques compared (immunoelectrophoresis, immunodiffusion, immunoelectroosmophoresis, electroimmunodiffusion); precipitins against *Biomphalaria glabrata* antigen
- Immunity, Precipitation
Deelder, A. M.; et al., 1976, Exper. Parasitol., v. 40 (2), 189-197
Schistosoma mansoni, demonstration of two circulating antigens (probably both polysaccharides) in infected hamsters, both demonstrated in serum, adult worm extracts, and excretory-secretory products of adult worms, one also demonstrated in urine, 2 additional schistosome-derived antigens found in urine
- Immunity, Precipitation
Desowitz, R. S.; Draper, C. C.; and Phillips, T. M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 430 [Demonstration]
Trypanosoma cruzi, Leishmania donovani, possible use of countercurrent immunoelectrophoresis in diagnosis of human infections
- Immunity, Precipitation
Desowitz, R. S.; and Una, S. R., 1976, J. Helminth., v. 50 (1), 53-57
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- Immunity, Precipitation
Dhar, S.; and Gautam, O. P., 1977, Indian J. Animal Sc., v. 47 (9), 566-570
Theileria annulata, cattle (nat. and exper.), haemagglutination-inhibition, indirect haemagglutination, and agar-gel-precipitation tests evaluated, haemagglutination-inhibition test most sensitive and more reliable than blood smear examination in predicting latent Theileria infection
- Immunity, Precipitation
Draper, C. C., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 93-97
human parasitic diseases, possible use of counterimmunoelectrophoresis for immunodiagnosis
- Immunity, Precipitation
Druilhe, P.; et al., 1977, Nouv. Presse Med., v. 6 (8), 660-661 [Letter]
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- Immunity, Precipitation
Druilhe, P.; and Monjour, L., 1975, Compt. Rend. Soc. Biol., Paris, v. 169 (4), 1089-1095
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- Immunity, Precipitation
Duffus, W.P.H.; Preston, J. M.; and Staak, C. H., 1975, J. Helminth., v. 49 (1), 1-7
Schistosoma bovis, fractionation of adult worm antigen, use in complement fixation, immuno-diffusion, indirect haemagglutination and indirect haemagglutination inhibition tests, cross-reactions using sera from Fasciola gigantica-infected cattle
- Immunity, Precipitation
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Trichomonas gallinae, Histomonas meleagridis, Dientamoeba fragilis, Entamoeba invadens, E. histolytica, antigenic relationships analyzed by immunoelectrophoretic techniques
- Immunity, Precipitation
Dwyer, D. M., 1976, Proc. Nat. Acad. Sc., v. 73 (4), 1222-1226
Trypanosoma lewisi, bloodstream forms isolated from rats, ultrastructural and immunologic evidence of avidly bound host serum proteins in surface coat, not present in intact culture or trypsinized bloodstream forms but reacquired after incubation in heterologous host serum proteins
- Immunity, Precipitation
Eimontas, Z. I.; and Medzevicius, A. K., 1974, Lietuvos TSR Moks. Akad. Darbai, s. C (68) (4), 65-76
Trichocephalus suis, pigs, immunization with gamma globulin from immune and normal pigs, antibody dynamics, investigation by precipitation and agglutination
- Immunity, Precipitation
Enayat, M. S., 1976, Pahlavi Med. J., v. 7 (3), 352-364
Litomosoides carinii, 2 specific antigenic components differentiated using gel diffusion and immunoelectrophoresis
- Immunity, Precipitation
Enayat, M. S.; and Pezeshki, M., 1977, J. Helminth., v. 51 (2), 143-148
Toxocara canis, guinea pigs (exper.), comparison of counterimmunoelectrophoresis with indirect haemagglutination test for detection of antibodies, possible use of these techniques for immunodiagnosis of human visceral larva migrans
- Immunity, Precipitation
Gam, A. A.; and Neva, F. A., 1977, Am. J. Trop. Med. and Hyg., v. 26 (1), 47-57
Trypanosoma cruzi, serodiagnosis using various epimastigote antigens and comparison with results obtained with trypomastigote amastigote antigen prepared from cell cultures, differences between antigens demonstrated by immunoprecipitation
- Immunity, Precipitation
Garcia, E. G., 1975, Southeast Asian J. Trop. Med. and Pub. Health, v. 6 (3), 425-429
Schistosoma japonicum, rabbits (exper.) infected with light, moderate and heavy doses of cercariae, relationship of appearance of circumoval precipitins in blood to course of infection

- Immunity, Precipitation
Gentilini, M.; et al., 1973, *Medecine et Malad. Infect.*, v. 3 (1), 21-23
detection and seroepidemiologic studies of human schistosomiasis using counter-immunoelectrophoresis, comparison with immunofluorescence and double diffusion in agar
- Immunity, Precipitation
Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 265-270
Schistosoma mansoni, measurement of immunoprecipitins to cercarial, egg, and adult worm antigens in infected persons with various clinical stages of disease
- Immunity, Precipitation
Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 271-276
Schistosoma mansoni, measurement of immunoprecipitins to somatic antigens in patients with liver and spleen involvement; possible roles of cercariae, adult worms, and eggs in producing pathology with schistosome ova probably initiating autoimmune reactions
- Immunity, Precipitation
Goldman, M.; and Bukovsky, E., 1973, *J. Protozool.*, v. 20 (4), 531
Babesia bigemina, soluble antigen capable of reacting with antiserum in gel diffusion plates has been extracted from infected plasma, hemolysates of infected red blood cells, and from sonicated parasites
- Immunity, Precipitation
Goldman, M.; and Bukovsky, E., 1975, *J. Protozool.*, v. 22 (2), 262-264
Babesia bigemina-infected bovine blood, extraction of soluble precipitating antigen, preliminary use in gel diffusion test with laboratory and field cattle
- Immunity, Precipitation
Guha, S.; and Sornmani, S., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 564 [Demonstration]
Schistosoma mansoni-infected *Australorbis glabratus* (exper.), precipitating patterns of component antigens from hemolymph
- Immunity, Precipitation
Guisantes, J. A.; and Torres, J. M., 1975, *Bol. Centro Panam. Zoonosis*, v. 17 (1-2), 9-26
human *Echinococcus granulosus*, diagnosis, gel double diffusion test, review
- Immunity, Precipitation
Guisantes, J. A.; and Varela-Diaz, V. M., 1975, *Bol. Chileno Parasitol.*, v. 30 (3-4), 54-57
human echinococcosis, comparative trials using latex agglutination, double diffusion and immunoelectrophoresis for diagnosis
- Immunity, Precipitation
Guisantes, J. A.; and Yarzabal, L. A., 1976, *Med. y Cirug.*, Bogota, v. 40 (1), 22-28
diagnosis of human *Echinococcus granulosus* using the double diffusion gel technique, comparison with results using immunoelectrophoresis
- Immunity, Precipitation
Hamburger, J.; and Zuckerman, A., 1976, *Exper. Parasitol.*, v. 39 (3), 460-478
Plasmodium berghei, soluble extract, fractionation by preparative disc electrophoresis, subsequent analytical disc electrophoresis, detection of precipitinogens by immunoelectrophoresis or by double immunodiffusion in agar gel, induction of precipitins in rabbits, physicochemical properties of soluble components, antigenic contaminants of host blood origin
- Immunity, Precipitation
Hamburger, J.; and Zuckerman, A., 1976, *Exper. Parasitol.*, v. 39 (3), 479-495
Plasmodium berghei, soluble extract, separation into 12 fractions by preparative disc electrophoresis, employment of fractions to seek precipitins in hyperimmune rat serum and in the vaccination of rats
- Immunity, Precipitation
Hansen, I. M., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 422-426
Schistosoma mansoni, diagnosis, re-evaluation of slide flocculation test, high sensitivity and specificity when "stunted schistosomes" from rabbits were used as antigen, cercarial antigen showed extensive cross reactions, antigen from mature adult worms could not be coated with cholesterol-lecithin crystals as required
- Immunity, Precipitation
Hayden, D. W.; and Van Kruiningen, H. J., 1975, *Am. J. Vet. Res.*, v. 36 (11), 1605-1614
Toxocara canis, dogs (exper.), eosinophilic gastroenteritis, hematologic findings, serum proteins (β -globulin content as potential diagnostic tool), precipitating humoral antibodies, intradermal test, histopathology, comparison with naturally occurring disease
- Immunity, Precipitation
Herd, R. P., 1976, *Parasitology*, v. 72 (3), 325-334
Echinococcus granulosus protoscoleces and adults, effects of complement and/or specific antibodies in vitro
- Immunity, Precipitation
Hillyer, G. V., 1975, *J. Parasitol.*, v. 61 (3), 557-559
Fasciola hepatica, laboratory animals, humans, detection of precipitins by counter-electrophoresis, suitable for diagnosis
- Immunity, Precipitation
Hillyer, G. V.; and Capron, A., 1976, *J. Parasitol.*, v. 62 (6), 1011-1013
Fasciola hepatica, human, immunodiagnosis by counterelectrophoresis, extensive cross-reactivity with sera from patients with various other parasitic infections, partial purification of antigen eliminates much of this cross-reactivity

Immunity, Precipitation

Hillyer, G. V.; and del Llano de Diaz, A., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 307-311

Fasciola hepatica, rabbits, immunoprecipitin response before and after rafoxanide treatment, results suggest that Ouchterlony double immunodiffusion or counterelectrophoresis can be utilized to show chemotherapeutic success, rafoxanide highly active against immature and mature flukes in rabbits

Immunity, Precipitation

Hillyer, G. V.; and Santiago de Weil, N., 1977, *J. Parasitol.*, v. 63 (3), 430-433

Fasciola hepatica, rats, partial purification of antigen for immunodiagnosis by counterelectrophoresis, improved specificity, compared with immunodiffusion

Immunity, Precipitation

Hoerchner, F.; Grelck, H.; and Flasshoff, F. G., 1976, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 89 (15), 296-300

Fasciola hepatica, cattle, diagnosis, comparison of one-time fecal examination and various serological tests, confirmation by post-mortem liver and bile examination; indirect immunofluorescence test better than agar gel precipitation, latex agglutination or fecal examination; duration of egg-shedding after treatment with Dirian

Immunity, Precipitation

Hoshino-Shimizu, S.; Camargo, M. E.; and Umezawa, E. S., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (4), 586-589

Trypanosoma cruzi, humans, slide flocculation test for diagnosis recommended as screening procedure especially for blood banks

Immunity, Precipitation

Houba, V.; et al., 1976, *J. Immunol.*, v. 117 (2), 705-707

Schistosoma mansoni, baboons, detection of soluble antigens and antibodies in sera, immunoelectroosmophoresis as a useful technique, possibility that simultaneous detection of both components in serum strongly suggests presence of circulating immune complexes

Immunity, Precipitation

Hsu, S. Y. L.; et al., 1976, *J. Parasitol.*, v. 62 (6), 914-926

Schistosoma mansoni, *S. japonicum*, rhesus monkeys immunized with highly X-irradiated cercariae, lethal antibody in sera, in vitro effect on schistosomula (perischistosomular precipitate, perischistosomular envelope)

Immunity, Precipitation

Huebner, J.; et al., 1973, *J. Protozool.*, v. 20 (4), 536

Encephalitozoon cuniculi, serodiagnosis, indirect micro-haemagglutination test not successful, microprecipitation in agar gel may have potential

Immunity, Precipitation

Huebner, J.; and Uhlikova, M., 1975, *J. Protozool.*, v. 22 (3), 63A [Abstract]

Toxoplasma gondii, diagnosis, comparison of results of microprecipitation in agar gel, Sabin-Feldman test, and animal inoculation, 2158 animals, results of microprecipitation and animal isolation agree more closely than those of Sabin-Feldman and animal isolation

Immunity, Precipitation

Imai, J., 1972, *Nettai Igaku (Trop. Med.)*, v. 14 (3), 111-123

Paragonimus westermani, biochemical analysis of antigens, effects of heat, protein and carbohydrate content; reactions to agar-gel diffusion, complement fixation and electrophoresis

Immunity, Precipitation

Jatkar, P. R.; and Purohit, S. K., 1977, *Indian Vet. J.*, v. 54 (12), 1021-1024

Trypanosoma evansi antigens and erythrocytic antigens from infected horse blood, comparison by gel diffusion tests

Immunity, Precipitation

Jenkins, S. N., 1976, *Parasitology*, v. 73 (2), xiv [Abstract]

Trichuris muris, immunization with whole male and stichocyte antigen preparations and with 'exo' antigen obtained by incubation of adult worms, analysis of functional antigens by immunodiffusion and physicochemical treatments

Immunity, Precipitation

Jira, J.; et al., 1975, *Ceskoslov. Epidemiol., Mikrobiol., Immunol.*, v. 24 (5), 300-303

toxoplasmosis, human, relationship between complement fixation titres and results in double agar gel diffusion test

Immunity, Precipitation

Kagan, I. G.; and Norman, L. G., 1976, *National Cancer Inst. Monograph* (43), 121-125

Pneumocystis carinii pneumonia in humans, evaluation of serologic tests with comparison of results of immunodiffusion, immunofluorescence, complement fixation and double diffusion tests, lower level of measurable antibody in American sera in comparison to that from European laboratories

Immunity, Precipitation

Kamiya, M.; Tharavanij, S.; and Harinasuta, C., 1973, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 4 (2), 187-194

Angiostrongylus cantonensis, fractionation of male and female antigen extracts, antigenicity of each fraction determined by indirect hemagglutination and immunoelectrophoresis tests

Immunity, Precipitation

Katamine, D.; Imai, J.; and Iwamoto, I., 1968, *Nettai Igaku (Trop. Med.)*, v. 10 (1), 29-38

Paragonimus westermanii, evaluation of agar gel diffusion test for diagnosis and assessment of chemotherapeutic effect

Immunity, Precipitation

Kazacos, K. R., 1975, *Vet. Parasitol.*, v. 1 (2), 165-174

Trichinella spiralis-immunized rats, increased resistance to *Nippostrongylus brasiliensis*, heterologous and homologous tests of immune precipitate formation on infective larvae

Immunity, Precipitation

Kazacos, K. R., 1976, *J. Parasitol.*, v. 62 (3) 493-494

Trichinella spiralis-immunized rats, increased resistance to *Strongyloides ratti*; lack of cross-reacting precipitating antibodies in in vitro tests

Immunity, Precipitation

Kazacos, K. R.; and Thorson, R. E., 1975, *J. Parasitol.*, v. 61 (3), 525-529

rats, immunization with *Nippostrongylus brasiliensis* or *Strongyloides ratti* protected against homologous and heterologous challenge; precipitates formed on infective larvae incubated in vitro in homologous or heterologous immune globulins

Immunity, Precipitation

van Knapen, F.; Framstad, K.; and Ruitenberg, E. J., 1976, *J. Parasitol.*, v. 62 (2), 332-333

Trichinella spiralis, reliability of enzyme-linked immunosorbent assay as control method for detection of infections in naturally infected slaughter pigs, compared with direct methods of diagnosis (trichinoscopy; digestion method) and other serological tests (immunofluorescence; counter-electrophoresis; Ouchterlony agar gel diffusion)

Immunity, Precipitation

Krettli, A.; Chen, D. H.; and Nussenzweig, R. S., 1973, *J. Protozool.*, v. 20 (5), 662-665

Plasmodium berghei, *P. cynomolgi*, sporozoites isolated by density-gradient centrifugation, infectivity, ability to induce protective immunity and formation of antispore antibodies, in vitro reactivity in circum-sporozoite precipitation reaction

Immunity, Precipitation

Krupp, I. M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 387-392

Entamoeba histolytica, antigenic pattern and variation in host response to amebic disease analyzed by immunoelectrophoretic patterns and indirect hemagglutination titers in sera obtained from patients from various parts of the world

Immunity, Precipitation

Lahav, M.; et al., 1975, *J. Protozool.*, v. 22 (3), 72A [Abstract]

Entamoeba histolytica, human, detection of antibodies by counter-electrophoresis and passive haemagglutination technique

Immunity, Precipitation

Lamina, J., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 305-311

Toxocara canis, human visceral larva migrans, attempted diagnosis using micro-precipitation with living larvae and Ouchterlony gel-precipitin test using *Toxocara* and some other helminth antigens, some cross-reactions

Immunity, Precipitation

Lamina, J., 1976, *Deutsche Tierarztl. Wchnschr.*, v. 83 (4), 133-136

Ascaris lumbricoides, guinea-pigs (exper.), detection of humoral antibodies by micro-precipitation test

Immunity, Precipitation

Lanham, S. M., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 270 [Abstract]

trypanosomes, enzymatic identification of precipitating antigens

Immunity, Precipitation

Le Ray, D.; van Meirvenne, N.; and Jadin, J. B., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 273-274 [Abstract]

Trypanosoma brucei, bloodstream and culture forms, common and variable antigens, immunoelectrophoretic characterization

Immunity, Precipitation

Lewert, R. M., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 171-175

Schistosoma japonicum, immunodiagnosis of human schistosomiasis, review

Immunity, Precipitation

Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70

Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)

Immunity, Precipitation

Londono, I., 1974, *Bol. Chileno Parasitol.*, v. 29 (3-4), 64-71

Trichinella spiralis, antigenic differences between larvae and adults demonstrated by development of stage-specific precipitin antibodies

Immunity, Precipitation

Londono, I., 1974, *Bol. Chileno Parasitol.*, v. 29 (3-4), 72-78

Trichinella spiralis, association of antilarval and anti-adult precipitin antibodies with specific immunoglobulins, rats

Immunity, Precipitation

Lubieniecki, B., 1976, *J. Fish Biol.*, v. 8 (6), 431-439

Grillotia erinaceus plerocercoids, haddock, cod, saithe, incidence and intensity increased with host age, no host sex difference in incidence, proportions of parasite maturity stages consistent between haddock length groups, distribution in gut of hosts, speculation on life cycle, Ouchterlony gel diffusion test (precipitin bands failed to develop)

- Immunity, Precipitation
Lunde, M. N.; and Fayer, R., 1977, *J. Parasitol.*, v. 63 (2), 222-225
Sarcocystis, soluble antigen prepared from zoites obtained by pepsin digestion techniques, indirect hemagglutination test and agar gel diffusion test in cattle, possible use in diagnosis, antigen did not cross-react with sera of Toxoplasma-positive humans and did not react with sera from Sarcocystis-infected dogs
- Immunity, Precipitation
McCarthy, V. C.; and Clyde, D. F., 1977, *Exper. Parasitol.*, v. 41 (1), 167-171
Plasmodium vivax, human, correlation of circumsporozoite precipitation reaction with sporozoite-induced protective immunity
- Immunity, Precipitation
Machnicka, B., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 213-221
Taenia saginata, humans, Cysticercus bovis, calves, antibody response, cross-reactions indicating antigenic relationship between adult and larval form, passive hemagglutination, indirect immunofluorescence, gel precipitation, immunoelectrophoresis
- Immunity, Precipitation
Madwar, M. A.; and Voller, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 57-62
Schistosoma haematobium and S. mansoni in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear
- Immunity, Precipitation
Mahajan, R. C.; et al., 1976, *Indian J. Med. Research*, v. 64 (8), 1173-1176
evaluation of counterimmunoelectrophoresis as useful tool in diagnosis of human echinococcosis
- Immunity, Precipitation
Mannweiler, E.; et al., 1976, *Deutsche Med. Wchnschr.*, v. 101 (52), 1915-1919
human amoebic hepatic abscesses, comparative seroimmunologic tests for antibody presence in infected persons, controls and persons from endemic areas show multiple tests needed for accurate diagnosis
- Immunity, Precipitation
Marcoullis, G.; and Graesbeck, R., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 314-322
Onchocerca volvulus, antigen extracts, preliminary identification and characterization; cross-reactions in immunodiffusion using other helminth antigens and sera from patients with other parasitic diseases
- Immunity, Precipitation
van Meirvenne, N.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 274-275 [Abstract]
Trypanosom[a] brucei, bloodstream and culture forms, common and variable antigens, immunogenic properties studied by trypanolysis (combined with neutralization and absorption) and immunoelectrophoretic analysis
- Immunity, Precipitation
Mohr, W., 1976, *Med. Klin.*, Berlin, v. 71, 1204-1209
human protozoal infections, value of immunoserologic techniques in diagnosis, comparison with results of direct blood examination and culture methods
- Immunity, Precipitation
Moreau, J. P.; et al., 1975, *Medecine Trop.*, v. 35 (5), 402-406
probable Fasciola gigantica infection in Malagasy woman, highly positive sero-immunologic tests although previous parasitologic tests had been negative, case report: Madagascar
- Immunity, Precipitation
Neilson, J. T. M., 1975, *J. Parasitol.*, v. 61 (5), 785-793
Dipetalonema viteae, adults, soluble somatic extracts, extracts of solubilized cuticles and membranes, fractionation by Sephadex column chromatography and polyacrylamide gel electrophoresis, constituents of each preparation compared by immunodiffusion and immunoelectrophoresis
- Immunity, Precipitation
Nemeth, I., 1971, *Parasitol. Hungar.*, v. 4, 23-46
Taenia pisiformis and Cysticercus pisiformis precipitin responses studied in rabbits (exper.) using agar gel diffusion precipitin test, antigenic composition defined
- Immunity, Precipitation
Nemeth, I., 1972, *Parasitol. Hungar.*, v. 5, 83-97
Cysticercus pisiformis, localization of immunoprecipitins in rabbits (exper.) by means of agar gel immunoelectrophoresis, association with IgM immunoglobulin class
- Immunity, Precipitation
Nemeth, I., 1972, *Parasitol. Hungar.*, v. 5, 99-134
Cysticercus pisiformis in rabbits (exper.), identification of hemagglutinating and precipitating antibodies in both primary and secondary infections, associations with IgM and IgG immunoglobulin classes
- Immunity, Precipitation
Nemeth, I., 1972, *Parasitol. Hungar.*, v. 5, 135-157
Cysticercus pisiformis in rabbits (exper.), isolation of specific antibodies belonging to IgG and IgM classes as shown by agar gel diffusion precipitation and indirect hemagglutination tests
- Immunity, Precipitation
Neppert, J., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 454-463
cross-reacting antigens among some filariae and other helminths, closed hexagonal immunodiffusion technique, implications for serodiagnosis of filariasis

- Immunity, Precipitation
Neppert, J.; and Warns, C.-M., 1974, Tropenmed. u. Parasitol., v. 25 (4), 492-497
sera from Liberians with various helminthic infections, cross reactions with antigens from *Ascaris*, hookworm, *Onchocerca*, *Dirofilaria immitis*, closed hexagon immunodiffusion, complement fixation reaction, indirect haemagglutination
- Immunity, Precipitation
Niel, G.; et al., 1972, Medecine et Malad. Infect., v. 2 (5), 193-202
filariasis, human, diagnosis by double-diffusion and immunoelectrophoresis, examination of possible use of *Setaria labiatopapillosa* as antigen, comparison with *Dipetalone-ma vitae* and *Ascaris suum* as antigens
- Immunity, Precipitation
Niel, G.; et al., 1974, Medecine et Malad. Infect., v. 4 (5), 231-235
Entamoeba histolytica, immunoelectrodiffusion in diagnosis of human infection, comparison with immunoelectrophoresis, immunofluorescence and latex agglutination test
- Immunity, Precipitation
Norman, L.; and Kagan, I. G., 1975, Bol. Chileno Parasitol., v. 30 (3-4), 58-64
Trichinella spiralis, rabbit and human serum, evaluation of crude and fractionated antigens and comparison of effectiveness of serologic tests for diagnosis
- Immunity, Precipitation
Oelerich, S., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (3), 296-304
Leishmania spp., *Trypanosoma cruzi*, *Crithidia* sp., *Mycobacterium smegmatis*, antigenic analyses and cross reactions, double gel-diffusion, complement-fixation, indirect haemagglutination
- Immunity, Precipitation
Oelerich, S.; and Nwokolo, C., 1974, Tropenmed. u. Parasitol., v. 25 (2), 137-146
Paragonimus uterobilateralis, sera from 27 patients, complement fixation, indirect haemagglutination, double gel diffusion, reactions with homologous antigen and cross-reactions with other helminth antigens, disc-electrophoretic analysis of *P. uterobilateralis* antigen: Nigeria
- Immunity, Precipitation
Oelerich, S.; Umaly, R. C.; and Lederer, I., 1974, Tropenmed. u. Parasitol., v. 25 (3), 318-326
Schistosoma mansoni, different developmental stages, *S. japonicum*, *Fasciola hepatica*, *Ascaris suum*, cross reactions in double gel diffusion, *Cerkarien*hüllenreaktion, complement fixation, indirect immunofluorescence, indirect haemagglutination, mice, rabbits
- Immunity, Precipitation
Orti Daras, T.; Martin Estruch, A.; and Miquel, L. A., 1974, Med. Espan. (426), an. 37, v. 72, 149-153
serologic diagnosis of human *Echinococcus granulosus* using cross-over electrophoresis
- Immunity, Precipitation
Ostmann, H.; Oelerich, S.; and Lederer, I., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 72-80
Trypanosoma cruzi, antigenic analysis, titers obtained with complement-fixation and indirect hemagglutination tests using hyperimmune sera from rabbits and guinea pigs; antibodies in mice demonstrable earlier and longer by complement fixation than by indirect hemagglutination and double-gel diffusion; for 33 Chagas' disease patients indirect hemagglutination was slightly more sensitive than complement-fixation, serum IgM levels not raised
- Immunity, Precipitation
Petithory, J.; and Boulard, C., 1972, Nouv. Presse Med., v. 1 (27), 1841-1843
human myiasis of *Hypoderma bovis* or *H. lineatum*, diagnosis in early stages using the Ouchterlony method and immunoelectrophoresis with antigen extract of the first larval stage of *H. lineatum*
- Immunity, Precipitation
Pinilla, N.; et al., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 68-70
human echinococcosis, seroepidemiologic prevalence survey using latex agglutination test with confirmation of results by immunoelectrophoresis: Cabrero, Departamento de Yumbel, Concepcion, Chile
- Immunity, Precipitation
Pinon, J. M.; and Dropsy, G., 1976, Biomedicine, v. 25 (9), 341-344
human echinococcosis, evaluation of immunoelectrodifussion for diagnosis and epidemiologic study, comparison with results using immunoelectrophoresis
- Immunity, Precipitation
Pinon, J. M.; and Dropsy, G., 1977, J. Immunol. Methods, v. 16 (1), 15-22
various human parasitic diseases, application of enzyme-linked-immuno-electro-diffusion assay (combination of immunoelectrodifussion and immunoenzyme method), sensitivity and specificity, enables class of immunoglobulins involved to be determined
- Immunity, Precipitation
Pinon, J. M.; and Dropsy, G., 1977, Path. Biol., v. 25 (1), 23-27
human parasitic diseases, use of enzyme-linked-immuno-electro-diffusion-assay (ELIEDA) in diagnosis and immunologic studies
- Immunity, Precipitation
Pinon, J. M.; and Gentilini, M., 1973, Nouv. Presse Med., v. 2 (19), 1283-1287
human filariasis, application of cellular immunologic tests (rosette formation, macrophage migration) in diagnosis and comparison with serologic tests (fluorescent antibody, passive hemagglutination, gel diffusion)

- Immunity, Precipitation
Pozzuoli, R.; et al., 1975, *J. Immunol.*, v. 115 (5), 1459-1463
Echinococcus granulosus, isolation of the most immunoreactive antigens from sheep hydatid fluid, evaluation in immunoelectrophoresis, counter immunoelectrophoresis, and passive haemagglutination, latter must be considered test of choice in serologic diagnosis
- Immunity, Precipitation
Quilici, M.; Assadourian, Y.; and Ranque, P., 1971, *Medecine Trop.*, v. 31 (2), 207-213
immunological diagnosis and post-treatment evaluation of human echinococcosis, comparison of sero-immunological tests
- Immunity, Precipitation
Ranque, J.; et al., 1972, *Nouv. Presse Med.*, v. 1 (20), 1363 [Letter]
human visceral leishmaniasis, value of immunoprecipitation and immunofluorescence in diagnosis, immigrants into France from endemic areas
- Immunity, Precipitation
Rao, B. V.; and Mittal, K. R., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 476-480
hydatidosis in Bubalus bubalis, failure to detect antibodies with indirect hemagglutination, scolexo-precipitation, or gel diffusion tests
- Immunity, Precipitation
Rao, B. V.; and Mittal, K. R., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 481-486
buffalo hydatid cyst fluid, antigenicity studied in rabbits, lambs, buffalo, and zebu calves with indirect hemagglutination, scolexo-precipitation, and gel diffusion tests, compared with other antigen preparations
- Immunity, Precipitation
Rezai, H. R.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 149-151
Leishmania donovani, techniques of indirect immunofluorescence and counter current immunoelectrophoresis compared in diagnosing kala-azar in children, immunoelectrophoretic test found useful tool for epidemiologic surveys and diagnosis
- Immunity, Precipitation
Ridley, D. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 793-796
schistosomiasis, human, diagnosis, complement fixation tests, 2 crude and 6 fractionated antigens, comparison with card precipitin test
- Immunity, Precipitation
Russi, S.; Siracusano, A.; and Vicari, G., 1974, *J. Immunol.*, v. 112 (3), 1061-1069
Echinococcus granulosus, hydatid cysts of sheep and human origin, isolation and characterization of carbohydrate antigen with blood group P₁ activity, occurrence of precipitating antibodies against this antigen in 11 of 21 sera from human cases of echinococcosis
- Immunity, Precipitation
Sadun, E. H.; Williams, J. S.; and Gore, R. W., 1973, *Isotopes and Radiation Parasitol.* III, 73-90
Schistosoma mansoni, S. haematobium, Trichinella spiralis, development of radioactive antigen microprecipitin assay (RAMP), comparison with soluble antigen fluorescent antibody and passive cutaneous anaphylaxis tests, results indicate RAMP measures antibody primarily of I_GE class
- Immunity, Precipitation
Sagua, H.; et al., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 58-60
eosinophilia, intradermal, ring precipitation and bentonite flocculation tests, comparison of results in persons at time of Trichinella spiralis infection and 8 1/2 years after infection
- Immunity, Precipitation
Sauerbrey, M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, part 1), 1156-1158
Angiostrongylus costaricensis, human abdominal infections diagnosed using the gel-double diffusion precipitin reaction using as antigen sera from infected cotton rats
- Immunity, Precipitation
Sawyer, M.; et al., 1973, *Am. J. Vet. Research*, v. 34 (10), 1281-1284
quantitative serologic assay (single radial immunodiffusion) for diagnosing congenital infections of cattle (including A. marginale)
- Immunity, Precipitation
Scapin, M.; and Tendler, M., 1975, *J. Parasitol.*, v. 61 (3), 561-562
Schistosoma mansoni, immunoelectroosmophoresis as rapid method for detecting soluble antigenic fraction
- Immunity, Precipitation
Scapin, M.; and Tendler, M., 1977, *J. Helminth.*, v. 51 (1), 71-72
Schistosoma mansoni, human, detection of immunoprecipitins by immunoelectroosmophoresis and immunodiffusion methods using adult worm antigens, comparison of antigens obtained by agitation in 3M KCl and by homogenization in saline
- Immunity, Precipitation
Schnur, L. F.; and Zuckerman, A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (3), 273-294
Sudanese, Kenyan and Ethiopian leishmanial isolates from human visceral and cutaneous infections, various wild animals and sandflies, leishmanial excreted factor (EF) serotypes determined by gel diffusion, discussion of distribution and relationships
- Immunity, Precipitation
Segura, E. L.; et al., 1974, *J. Protozool.*, v. 21 (4), 571-574
Trypanosoma cruzi epimastigotes from cultures, separation into fractions (nuclear, mitochondrial, lysosomal, microsomal, and cell-sap), DNA, RNA content and enzyme markers of fractions, subcellular localization of antigens by Ouchterlony tests in cell-sap and microsomal fractions

Immunity, Precipitation

Seitz, H. M., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 88-90

Plasmodium vinckei, *P. berghei*, counter-current immunoelectrophoresis used to detect malarial antigens and antibodies in rat and mouse sera, more sensitive than double diffusion methods

Immunity, Precipitation

Setasuban, P., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (1), 114-115

Ancylostoma tubaeforme, differentiation from *A. caninum* using Sarles phenomenon: precipitation around openings of third stage larvae of *A. tubaeforme* in presence of homologous antisera, no precipitation with *A. caninum*

Immunity, Precipitation

Shukla, D. C.; and Victor, D. A., 1976, Indian Vet. J., v. 53 (11), 852-854

sarcosporidiosis, bovines, diagnosis, complement fixation effective, agglutination and gel diffusion were of no value

Immunity, Precipitation

Sinios, A., 1972, Monatschr. Kinderh., v. 120 (9), 378-381

Ascaris lumbricoides causing interstitial eosinophilic pertussis-like pneumonia in newborn, diagnosis by direct and indirect precipitation reaction after emesis of adult *Ascaris* by mother

Immunity, Precipitation

Sinski, E.; and Holmes, P. H., 1977, Exper. Parasitol., v. 43 (2), 382-389

Nippostrongylus brasiliensis, rats, systemic and local antibody response, specific anti-parasite binding capacity of IgA and IgG in intestinal mucosa and serum measured by radioimmunoassay, results compared with total levels of IgA and IgG and hemagglutinating and precipitating antibody titers, indirect evidence that local IgA may be part of effector mechanism

Immunity, Precipitation

Souza, M. do C.; et al., 1974, J. Protozool., v. 21 (4), 579-584

living culture forms of *Leptomonas pessoai* cross-protected mice against *Trypanosoma cruzi* challenge infection, circulating antibodies detected in immunized mice by immunodiffusion, passive haemagglutination, complement fixation, and antibody binding assay which cross-reacted with *T. cruzi* extracts, cellular immune response indicated by leucocyte migration inhibition

Immunity, Precipitation

Spitalny, G. L.; Rivera-Ortiz, C.-I.; and Nussenzweig, R. S., 1976, Exper. Parasitol., v. 40 (2), 179-188

Plasmodium berghei, mice, effect of splenectomy before and after immunization on development and manifestation of sporozoite-induced immunity, monitoring of protective immunity and production of antiparasite antibodies (circumsporozoite precipitate and sporozoite neutralization activity), effect of passive transfer of hyperimmune sera

Immunity, Precipitation

Stagno, S.; and Hurtado, R., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 90-91

Trypanosoma cruzi, early diagnosis of pre-natal infections in newborn infants by demonstration of IgM antibodies using immunodiffusion and immunofluorescence

Immunity, Precipitation

Stamm, W. P.; Ashley, M. J.; and Bell, K., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 49-53

low endemicity area of human amoebiasis, assessment of indirect haemagglutination, latex agglutination, indirect fluorescent antibody test and gel diffusion precipitin test for diagnostic serology

Immunity, Precipitation

Stamm, W. P.; Ashley, M. J.; and Parelkar, S. N., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 211-213

amoebiasis, human, diagnosis, commercially available latex agglutination test marketed in kit form as *Serameba*, compared with gel diffusion precipitin, fluorescent antibody, and indirect haemagglutination tests

Immunity, Precipitation

Stamm, W. P.; and Phillips, E. A., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 490-492

human amoebiasis, cellulose acetate membrane precipitin (CAP) diagnostic test compared with gel diffusion precipitin; results suggest that CAP is slightly more sensitive and equally specific

Immunity, Precipitation

Stevenson, P.; and Jacobs, D. E., 1977, J. Helminth., v. 51 (2), 149-154

Toxocara canis, *T. cati*, *Ascaris suum*, *Toxascaris leonina*, *Parascaris equorum*, pigs (exper.), in vitro larval precipitate test and indirect fluorescent antibody test using *T. canis* larvae as antigen, indirect fluorescent antibody test using *A. suum* larvae as antigen, specificity

Immunity, Precipitation

Swietlikowski, M., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 101-115

Dictyocaulus viviparus, calves, immunization, normal or X-ray inactivated larvae, numbers of infective larvae, levels of complement fixing and precipitating antibodies, course of infection, precipitating antibodies appearing later than complement fixing antibodies and probably produced by mature parasites

Immunity, Precipitation

Tanaka, H., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 176-179

human schistosomiasis, comparative evaluation of complement fixation and circumoval precipitin reactions for diagnosis and assessment of cure after therapy

Immunity, Precipitation

Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1977, *Research Vet. Sc.*, v. 23 (1), 51-54

Babesia bigemina, antigenic variation in 4 stabilates propagated as acute and chronic blood-borne and tick-borne infections of Colombian cattle, characterization by means of complement fixation, gel diffusion, agar gel electrophoresis, and indirect haemagglutination tests

Immunity, Precipitation

Torres, J. M.; Guisantes, J. A.; and Lopez-Lemes, M. H., 1975, *Bol. Centro Panam. Zoonosis*, v. 17 (1-2), 27-42

use of electrosyneresis (counter-immunoelectrophoresis) in diagnosis of human *Echinococcus granulosus*, review and standardization of method

Immunity, Precipitation

Torres, P.; and Barriga, O. O., 1974, *Bol. Chileno Parasitol.*, v. 29 (3-4), 79-85

Ascaris suum, *A. lumbricoides*, *Toxocara mystax*, *Ascaridia galli*, comparative antigenic analysis by gel double diffusion and immunoelectrophoresis

Immunity, Precipitation

Tribouley-Duret, J.; et al., 1976, *Compt. Rend. Soc. Biol., Paris*, v. 170 (2), 349-352
Toxocara canis, mice, rabbits, detection of antibodies using antigen prepared from adult worm rather than larva, precipitation, complement fixation, hemagglutination, results show such antigen should be suitable for diagnosis of visceral larva migrans

Immunity, Precipitation

Trzeciak, J.; et al., 1975, *Med. Wet.*, v. 31 (11), 661-662

fascioliasis, bovine, flocculation test not useful for diagnosis

Immunity, Precipitation

Tsuji, M.; et al., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 233-236
Schistosoma japonicum, immunologic differences of 3 species of *Oncomelania* vector snails, immunoelectrophoretic demonstration of shared antigens between adult worms and snail vectors

Immunity, Precipitation

Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 422-432
Schistosoma haematobium, human, with and without other helminthic infections, serodiagnosis, various schistosome antigens plus *Ascaris suum* and *Fasciola hepatica* tested in Cercarienhüllenreaktion, indirect immunofluorescence, indirect haemagglutination, complement fixation, and double gel diffusion tests, evaluation of sensitivity and specificity, attempt to correlate results of serologic tests with some clinical symptoms and with influence of chemotherapy

Immunity, Precipitation

Vanderberg, J. P., 1974, *J. Protozool.*, v. 21 (4), 527-537

Plasmodium spp. sporozoites, motility, locomotion, movement, effects of several factors (parasite species, oocyst vs. salivary gland sporozoites, presence of albumin or globulins, temperature), relationship to infectivity, immunogenicity (circumsporozoite precipitate reaction), and secretory activity

Immunity, Precipitation

Van Tiggele, L. J.; and Over, H. J., 1976, *Vet. Parasitol.*, v. 1 (3), 239-248

Fasciola hepatica, sheep (nat. and exper.), cattle (exper.), serological diagnosis, comparison of indirect haemagglutination, counter-immunoelectrophoresis, and double immunodiffusion

Immunity, Precipitation

Varela-Diaz, V. M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 617-622

latex agglutination test is technique of choice for field surveys and seroepidemiologic studies of human *Echinococcus granulosus*, comparative evaluation of indirect agglutination test, immunoelectrophoresis and Casoni skin test

Immunity, Precipitation

Varela-Diaz, V. M.; et al., 1977, *Research Vet. Sc.*, v. 23 (2), 213-216

Echinococcus granulosus, *Taenia hydatigena*, comparative antigenic characterization of cyst fluids by immunoelectrophoresis, arc 5 antigens are present in both fluids, significance to phylogenetic and immunodiagnostic studies

Immunity, Precipitation

Varma, T. K.; Kulshrestha, S. B.; and Rao, B. V., 1975, *Riv. Parassitol., Roma*, v. 36 (4), 287-294

Taenia hydatigena, larval and strobilar phase, serodiagnostic studies with in vitro precipitation test, naturally infected sheep and goats, experimentally infected lambs and pups

Immunity, Precipitation

Verma, B. B.; and Gautam, O. P., 1977, *Indian Vet. J.*, v. 54 (10), 809-813

Trypanosoma evansi, buffaloes, calves (both exper.), diagnosis, comparison of passive haemagglutination, gel diffusion and indirect fluorescent antibody tests

Immunity, Precipitation

Vinayak, V. K.; et al., 1976, *Indian J. Med. Research*, v. 64 (5), 661-667

value of immunoelectrophoresis in immunodiagnosis of human hepatic and intestinal *Entamoeba histolytica*, comparison with indirect agglutination and gel diffusion methods

Immunity, Precipitation

Visvesvara, G. S.; and Balamuth, W., 1975, *J. Protozool.*, v. 22 (2), 245-256

Acanthamoeba, *Naegleria*, *Hartmannella*, comparative studies on free-living and pathogenic amoebae: cyst structure; nutrition; protein composition; immunology; cell free plaques and other cytopathic effects; phospholipase liberation; sensitivity to amphotericin B

- Immunity, Precipitation
Visvesvara, G. S.; and Healy, G. R., 1973, *J. Protozool.*, v. 20 (4), 522
pathogenic vs. free-living *Naegleria*, comparison by gel-diffusion and immunoelectrophoresis reactions
- Immunity, Precipitation
Vives, H. A., 1977, *Acta Bioquim. Clin. Latinoam.*, v. 11 (1), 59-64
Echinococcus granulosus, diagnosis of hydatid disease, double and radial immunodiffusion
- Immunity, Precipitation
Vizcaino G., O.; and Todorovic, R. A., 1975, *Rev. Inst. Colomb. Agropec.*, v. 10 (1), 77-85
Babesia bigemina, B. argentina, characterization of antigens, complement fixation, immunodiffusion, cross-immunity tests
- Immunity, Precipitation
Weisbroth, S. H.; Wang, R.; and Scher, S., 1973, *Lab. Animal Sc.*, v. 23 (2), 241-247
Cuterebra buccata, natural infections of laboratory *Oryctolagus cuniculus*, gross and microscopic aspects of skin lesions, immediate and delayed hypersensitivity reactions to skin tests, detection of circulating precipitins by immunodiffusion tests
- Immunity, Precipitation
Weiss, N.; and Degremont, A., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 377-384
filariasis in persons returning from endemic areas, comparison immunoserologic diagnostic tests (immunoelectrophoresis, indirect fluorescent antibody, indirect hemagglutination, two-dimensional gel diffusion tests) showed that highest sensitivity obtained with immunoelectrophoresis, combined tests gave best results
- Immunity, Precipitation
Willaert, E. J. P.; De Jonckheere, J. F.; and Oktem, N., 1977, *J. Parasitol.*, v. 63 (2), 389-390
Naegleria fowleri, immunoelectrophoretic identification of environmental pathogenic isolate from Belgium
- Immunity, Precipitation
Willaert, E.; Jadin, J. B.; and Le Ray, D., 1972, *Protistologica*, v. 8 (4), 497-504
Naegleria, immunoelectrophoretic analysis of water soluble proteins, comparison of pathogenic and nonpathogenic strains, confirms existence of two separate species and gives evidence of homogeneity of pathogenic strains from different geographic areas, no antigenic relationship with *Hartmannella castellanii* or *Entamoeba histolytica*, study of antigenically intermediate strain between *Naegleria gruberi* and pathogenic *Naegleria* sp.
- Immunity, Precipitation
Willaert, E.; and Stevens, A. R., 1976, *Path. Biol.*, v. 24 (2), 89-91
Acanthamoeba castellanii, purified plasma membranes, elicited antisera assayed by immunoprecipitation and immunofluorescence methods, cross reaction with other species of *Acanthamoeba*; plasma membrane antisera may allow identification of species or even strains
- Immunity, Precipitation
Williams, A. I. O., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (5), 621-630
Plasmodium falciparum, preparation and use of malarial placenta antigen for immunodiffusion studies: Ibadan, Western State of Nigeria
- Immunity, Precipitation
Williams, J. F.; Perez Esandi, M. V.; and Oriol, R., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 575-579
evaluation of purified lipoprotein antigens of *Echinococcus granulosus* in the immunodiagnosis of human infection using hemagglutination, immunoelectrophoresis and skin tests
- Immunity, Precipitation
Williamson, J.; and Cover, B., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 78-87
Plasmodium falciparum, application of differential sucrose gradient centrifugation to separation and purification of human erythrocytic stages and gametocytes and of nitrogen cavitation for host-cell-free parasite preparation, gel diffusion analyses showed that highly purified infected cell preparations retained precipitinogenic spectrum of original crude preparation, possible use in vaccine preparation
- Immunity, Precipitation
Wilson, R. J. M.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 308-312
Plasmodium falciparum, human, precipitating antibody response to malarial S-antigens, age distribution, other factors affecting production and detection of such antibodies: The Gambia
- Immunity, Precipitation
Wilson, R. J. M.; and Williams, K., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (1), 15-20
European with suspected pyrimethamine-resistant malaria, serological study (fluorescent antibody test, C-reactive protein, precipitin test, immunoglobulin levels), precipitating antibodies demonstrated against two specific malarial antigens, differences from antibodies seen in sera from repeatedly infected Africans: The Gambia, West Africa
- Immunity, Precipitation
Yarzabal, L. A.; et al., 1977, *J. Parasitol.*, v. 63 (3), 495-499
antigen 5 of *Echinococcus granulosus* found to also be a component of *E. multilocularis*, radioimmuno-electrophoretic, immunodiffusion, and immunoabsorption studies, implications for immunodiagnosis of hydatid disease
- Immunity, Precipitation
Yogore, M. G.; Ozel, M. A.; and Lewert, R. M., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 353-354
Schistosoma japonicum, immunofluorescence of circumoval precipitate, all three major Ig classes found to participate in formation of precipitate (IgA < IgG < IgM), IgE and C3 also contributed

Immunity, Precipitation

- Yoshimura, K.; et al., 1976, Japan. J. Vet. Sc., v. 38 (6), 579-593
Angiostrongylus cantonensis, guinea pigs, rats, evolution of cellular (macrophage migration inhibitory factor; delayed-type skin reactivity) and humoral (hemagglutinating and precipitating antibodies) immune responses

Immunity, Precipitation

- Zapart, W.; Adonajko, A.; and Gancarz, Z., 1969, Acta Parasitol. Polon., v. 16 (1-19), 1968-1969, 9-19
Trichinella spiralis, sera from infected humans, evaluation of fractionated antigens, complement fixation and ring precipitation tests

Immunity, Precipitation

- Zawadzka-Jedrzejewska, B.; Gancarz, Z.; and Plonka, W., 1971, Med. Dosw. i Mikrobiol., v. 23 (3), 271-279
Fasciola hepatica, beef cattle, comparative evaluation of passive agglutination, complement fixation and ring precipitation test for diagnosis

Immunity, Precipitation

- Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446
 Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunity, Premunition

- Callow, L. L.; et al., 1974, Austral. Vet. J., v. 50 (1), 12-15
Babesia bigemina, cattle self-cured, drug-cured with imidocarb or with persistent infections showed an appreciable or strong degree of immunity to challenge (the finding is contrary to the concept of premunition); indirect fluorescent antibody test (antibody titre did not reflect degree of resistance to challenge)

Immunity, Premunition

- Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, Am. J. Vet. Research, v. 38 (8), 1167-1172
Anaplasma marginale, cows (exper.), cell-mediated immunity and severity of clinical symptoms in response to challenge infection after inoculation with virulent, live attenuated, or killed *A. marginale*, effect of chemosterilization on residual immunity

Immunity, Premunition

- Frenkel, J. K., 1977, Am. J. Path. (418), v. 86 (3), 749-752
Besnoitia jellisoni in *Mesocricetus auratus* (exper.), chronic infection of hamsters provides a sensitive example of immunosuppression by corticosteroids and cytostatic agents, permits study of corticosteroid effects on chronic infection-immunity in the adrenals or the body as a whole

Immunity, Premunition

- Hussein, H. S., 1977, Ann. Trop. Med. and Parasitol., v. 71 (3), 249-253
Babesia hylomysci, *B. microti*, mice (exper.), recovery from primary infection of *B. microti* results in sterile immunity possibly for lifetime, recovery from *B. hylomysci* results in premunition with infection at subpatent levels with spontaneous relapses, cross-protection occurs between the two species

Immunity, Premunition

- Jeon, Y.; Kim, D. S.; and Jeong, S. J., 1975, Research Rep. Office Rural Develop., Min. Agric. and Forest., Korea, v. 17, 45-49
Babesia, cattle, experimental infection for immunization, recovery with persistence of antibodies as shown by indirect fluorescent antibody test

Immunity, Premunition

- Kiurtov, N., 1973, Vet. Med. Nauki, v. 10 (4), 49-53
Babesia ovis, intact and splenectomized lambs, premunition, role of spleen in antibody production

Immunity, Premunition

- Kuttler, K. L.; and Johnson, L. W., 1977, Vet. Med. and Small Animal Clin., v. 72 (8), 1354, 1356-1359
Anaplasma marginale, *Babesia bigemina*, *B. argentina*, Holstein heifers destined for shipment to Nicaragua, premunition by inoculation with organisms, oxytetracycline given to heifers administered attenuated or non-attenuated *A. marginale*; apparently resistant to field challenge in Nicaragua

Immunity, Premunition

- Kuttler, K. L.; and Todorovic, R. A., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 106-112
Anaplasma marginale, cattle, premunization, Gloxazone and Imidocarb superior to oxytetracycline in moderating premunizing infection, possible factors affecting success (age of host; virulence, size, and potency of premunizing inoculum; strain or size of challenge exposure; temperature and altitude)

Immunity, Premunition

- Loehr, K. F., 1972, J. Protozool., v. 19 (4), 658-660
Babesia bigemina, immunity in cattle (exper.), concluded that premunition is followed by sterile immunity which lasts for at least 6 months and thereafter fades gradually with time, also concluded that minimum period of contact between host and parasite is required for acquisition of immunity, capillary tube agglutination test sensitive but unsuitable for detection of carrier animals

Immunity, Premunition

Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (1), 86-95

Anaplasma marginale, *A. centrale*, cattle, homologous and heterologous indirect fluorescent antibody and capillary tube agglutination responses to primary infection and reinfection and to cross-infection with the heterologous organisms, clinical reactions; *A. centrale* carrier animals showed high degree of premunition to severe challenge with *A. marginale*

Immunity, Premunition

Norman, B. B., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 103-106

Anaplasma marginale, cattle, current status of premunization and vaccination for control

Immunity, Premunition

Rank, R. G.; and Weidanz, W. P., 1976, Proc. Soc. Exper. Biol. and Med., v. 151 (2), 257-259

Plasmodium gallinaceum, fatal fulminating parasitemias in agammaglobulinemic chickens, B-cell deficient chickens rescued from primary infection by chloroquine therapy resisted challenge infection, data suggest that premunition to malaria in chickens is B-cell independent

Immunity, Premunition

Todorovic, R., 1976, Vet. Parasitol., v. 2 (1), 97-109

Babesia spp., cattle, review: serodiagnosis, immunization (sterile immunity; premunition), chemoprophylaxis with imidocarb, vectors: Colombia

Immunity, Premunition

Todorovic, R. A.; and Tellez, C. H., 1975, Trop. Animal Health and Prod., v. 7 (3), 125-131

adult cattle (*Bos taurus*), premunition against *Babesia bigemina* and *B. argentina* using Imidocarb or Ganaseg to control post premunition reactions was effective and practical; premunition against *Anaplasma marginale* using oxytetracycline and Gloxazone was less effective and not practical

Immunity, Premunition

Weilgama, D. J.; Jayasekara, M. U.; and Hussain, M., 1975, Ceylon Vet. J., v. 23 (3-4), 49-53

Babesia bigemina, *B. argentina*, *Anaplasma centrale*, *A. marginale*, three breeds of cattle (Ayrshire, Friesian and Shorthorn), haematological changes including parasitaemia and temperature reactions following premunition with blood from infected cattle: Sri Lanka, imported from New Zealand

Immunity, Premunition

Whitlock, J. H.; and Georgi, J. R., 1976, Parasitology, v. 72 (3), 207-224

biological controls in mixed trichostrongylid infections (predominantly *Haemonchus contortus cayugensis*) in sheep, different ecosystems (barn vs. pasture) and different treatment groups, course of infections (erythrocyte loss, fecal egg counts, hematocrit values), "Anaphylactoid 'self-cure' did not occur in this experiment but something like premunition certainly did."

Immunity, Radioimmunoassay

Bout, D.; et al., 1977, Ann. Immunol., v. 128C (3), 687-698

Schistosoma mansoni, *Fasciola hepatica*, *Echinococcus granulosus*, characterization of allergens by radioimmuno-electrophoresis

Immunity, Radioimmunoassay

Carson, D.; Metzger, H.; and Bazin, H., 1975, J. Immunol., v. 115 (2), 561-563

Nippostrongylus braziliensis-infected rats, simple radioimmunoassay for measurement of IgE levels by ammonium sulfate precipitation

Immunity, Radioimmunoassay

Gehle, W. D.; Smith, K. O.; and Fuccillo, D. A., 1976, Infect. and Immun., v. 14 (5), 1253-1255

Toxoplasma gondii, solid-phase radioimmunoassay, results show good correlation with indirect hemagglutination test

Immunity, Radioimmunoassay

Ghose, A. C.; and Rowe, D. S., 1977, Immunology, v. 14 (6), 459-465

Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity, Radioimmunoassay

Hamburger, J.; Pelley, R. P.; and Warren, K. S., 1976, J. Immunol., v. 117 (5), pt. 1, 1561-1566

Schistosoma mansoni, three major egg antigens, determination of stage and species specificity by radioimmunoassay

Immunity, Radioimmunoassay

Ito, K.; et al., 1977, Clin. and Exper. Immunol., v. 28 (3), 407-412

Echinococcus multilocularis, human, diagnosis, radioallergosorbent test (RAST) compared with 4 other methods of immunodiagnosis

Immunity, Radioimmunoassay

Kuhn, R. E.; and Vaughn, R. T., 1976, Internat. J. Parasitol., v. 6 (3), 223-225

Trypanosoma cruzi, use of ⁵¹Cr-labelled culture forms in agglutination titrations

- Immunity, Radioimmunoassay
Moyesijan, M.; and Lalic, R., 1973, *Isotopes and Radiation Parasitol.* III, 33-42
Dictyocaulus filaria, sheep, radioimmunoassay using radioactively labelled immunoglobulins and whole parasites (12-14 days old) as antigen
- Immunity, Radioimmunoassay
Murrell, K. D.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 446-463
Schistosoma mansoni, surface membrane antigens, extraction and partial characterization using assays based on competitive inhibition of human antibodies binding to schistosomules, indirect fluorescent antibody inhibition assay, radioimmune inhibition assay
- Immunity, Radioimmunoassay
Patterson, R.; et al., 1975, *Pediatrics, Am. Acad. Pediat.*, v. 56 (3), 417-420
differentiation of visceral larva migrans caused by toxocariasis from that caused by ascariasis using radioimmunoassay to demonstrate serum immunoglobulins
- Immunity, Radioimmunoassay
Pelley, R. P.; et al., 1976, *J. Immunol.*, v. 117 (5), pt. 1, 1553-1560
Schistosoma mansoni, identification and purification of three major egg antigens, further characterization by radioimmunoassay, one antigen exhibits degree of stage and species specificity consistent with granulomatous response to S. mansoni eggs, possible role in immunodiagnosis
- Immunity, Radioimmunoassay
Pelley, R. P.; Warren, K. S.; and Jordan, P., 1977, *Lancet, London* (8042), v. 2, 781-785
Schistosoma mansoni, humans, purified egg antigen used in diagnosis by radioimmunoassay, less than 1% cross-reactivity with S. haematobium or S. japonicum
- Immunity, Radioimmunoassay
Polmar, S. H.; Waldmann, T.; and Terry, W. D., 1973, *J. Immunol.*, v. 110 (5), 1253-1261
schistosomiasis, human, comparison of 3 radioimmunoassay techniques for measurement of serum IgE
- Immunity, Radioimmunoassay
Sadun, E. H.; Williams, J. S.; and Gore, R. W., 1973, *Isotopes and Radiation Parasitol.* III, 73-90
Schistosoma mansoni, S. haematobium, Trichinella spiralis, development of radioactive antigen microprecipitin assay (RAMP), comparison with soluble antigen fluorescent antibody and passive cutaneous anaphylaxis tests, results indicate RAMP measures antibody primarily of I_E class
- Immunity, Radioimmunoassay
Schinski, V. D.; Clutter, W. C.; and Murrell, K. D., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 824-831
Schistosoma mansoni, S. haematobium, human, immunodiagnosis, enzyme-linked immunosorbent assay and radioimmunoassay compared with indirect hemagglutination and indirect fluorescent antibody techniques
- Immunity, Radioimmunoassay
Sinski, E.; and Holmes, P. H., 1977, *Exper. Parasitol.*, v. 43 (2), 382-389
Nippostrongylus brasiliensis, rats, systemic and local antibody response, specific anti-parasite binding capacity of IgA and IgG in intestinal mucosa and serum measured by radioimmunoassay, results compared with total levels of IgA and IgG and hemagglutinating and precipitating antibody titers, indirect evidence that local IgA may be part of effector mechanism
- Immunity, Radioimmunoassay
Smith, W. D., 1977, *Research Vet. Sc.*, v. 22 (3), 334-338
sheep hyperinfected with Haemonchus contortus, anti-larval antibody levels in serum and abomasal mucus detected by radioimmunoassay, no immunological memory observed following challenge infection, presence of IgA antibodies in abomasal mucus thought to be locally produced while IgG antibodies largely derived from blood
- Immunity, Radioimmunoassay
Somorin, A. O.; Heiner, D. C.; and Ajugwo, R. E., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (5, part 1), 872-876
Onchocerca volvulus, Nigerian patients, total serum IgE measured by radioimmunoassay, comparison with IgE levels in uninfected and atopic groups in Nigeria and California
- Immunity, Radioimmunoassay
Vervloet, D.; et al., 1975, *Nouv. Presse Med.*, v. 4 (40), 2886 [Letter]
human echinococcosis, seroimmunological diagnosis using the RAST (radio-allergo-sorbent-test) and soluble antigen of hydatid cysts to detect presence of IgE
- Immunity, Radioimmunoassay
Voller, A.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 431-437
human tropical parasitic diseases, comparison of enzyme-immunoassay and radio-immunoassay in detection of antibodies, both assays sensitive and reproducible and gave comparable results
- Immunity, Radioimmunoassay
Yarzabal, L. A.; et al., 1977, *J. Parasitol.*, v. 63 (3), 495-499
antigen 5 of Echinococcus granulosus found to also be a component of E. multilocularis, radioimmunoelectrophoretic, immunodiffusion, and immunoabsorption studies, implications for immunodiagnosis of hydatid disease
- Immunity, Radioimmunoassay
Yeates, R. A.; and Ogilvie, B. M., 1976, *J. Immunol. Methods*, v. 12 (1-2), 57-65
Nippostrongylus brasiliensis, Necator americanus, measurement of antibodies to an unpurified enzyme (acetylcholinesterase) using an active-site directed radiolabel, cross-reactions between the two species

Immunity, Radioimmunoassay

- Yokogawa, M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 581-586
 increased levels of IgE in sera and pleural exudates of patients infected with *Paragonimus*, pleural levels significantly higher than serum levels in *Paragonimus miyazakii* infections when concentrations determined using radioimmunoabsorbents and antigens of *Paragonimus* spp.

Immunity, Skin tests

- Abdel-Salam, E.; and Abd El-Fattah, M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 463-469
Schistosoma haematobium, statistics of epidemiologic survey of children from 6 months to 10 years of age for prevalence and morbidity of infections, comparison of 3 geographically different villages in the Giza governorate, Egypt

Immunity, Skin tests

- Andrews, J. S.; Hill, C. H.; and Henson, L. A., 1976, *Proc. Helminth. Soc. Washington*, v. 43 (1), 81-84
Trichinella spiralis, pigs, trichina-cyst antigen, intradermal diagnosis, results unreliable

Immunity, Skin tests

- Apt, W.; et al., 1970, *Bol. Chileno Parasitol.*, v. 25 (1-2), 37-41
Toxoplasma gondii, human, diagnosis, establishment of criteria for interpretation of toxoplasmin skin test and comparison with results of hemagglutination test

Immunity, Skin tests

- Askenase, P. W.; Hayden, B.; and Higashi, G. I., 1976, *Clin. and Exper. Immunol.*, v. 23 (2), 318-327
Schistosoma mansoni, guinea-pigs, cutaneous basophil hypersensitivity (CBH) reactions to schistosome eggs or soluble egg antigens (SEA), contact hypersensitivity-like CBH responses to live cercarial challenge by skin penetration in sensitized animals, SEA-induced macrophage migration inhibition in infected guinea pigs manifesting CBH reactions

Immunity, Skin tests

- Banerjee, D. P.; et al., 1977, *Trop. Animal Health and Prod.*, v. 9 (3), 153-158
Babesia equi, donkeys (vaccinated, infected and carrier intact, and splenectomized), intradermal skin test developed to demonstrate hypersensitivity reaction, leucocyte migration inhibition test developed

Immunity, Skin tests

- Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 601-614
Metastrongylus spp., pigs, immediate hypersensitivity, production and partial characterization of homocytotropic antibody, passive transfer of skin sensitivity to uninfected recipients, homocytotropic activity closely associated with but does not parallel distribution of IgA and may be mediated by another immunoglobulin

Immunity, Skin tests

- Barratt, M. E. J., 1972, *Immunology*, v. 22 (4), 615-623
Metastrongylus spp., pigs, immediate hypersensitivity, partial characterization of allergens, suggested that cross reactions so commonly found when using nematode antigens in wheal and erythema reactions can be eliminated by suitable dilution of the allergen

Immunity, Skin tests

- Barrett-Connor, E.; et al., 1976, *J. Infect. Dis.*, v. 133 (4), 473-477
Trichinella spiralis, outbreak in campers after eating roasted wild pig, diagnosis by eosinophilia and sero-immunologic studies; diagnostic test comparisons, skin-test antigen inconclusive: California (infected in Hawaii)

Immunity, Skin tests

- Barriga, O. O., 1977, *J. Clin. Microbiol.*, v. 6 (3), 274-279
Trichinella spiralis, different antigenic fractions, reactivity and specificity (tested for cross-reactions against *Ascaris suum*) in cutaneous (immediate and delayed) and serological (bentonite agglutination, hemagglutination, hemagglutination inhibition) tests, implications for clinical diagnosis of trichinellosis

Immunity, Skin tests

- Bettini, S.; Pampiglione, S.; and Maroli, M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (1), 73-79
 leishmaniasis, human, preliminary epidemiological survey, validity of leishmanin skin test confirmed, positivity rate according to age and sex: Tuscan region of Italy

Immunity, Skin tests

- Blancou, J.; Bouchet, A.; and Tailliez, R., 1976, *Rev. Elevage et Med. Vet. Pays Trop.*, n. s., v. 29 (1), 39-42
 purified antigen of *Fasciola hepatica*, intradermal reaction in zebu cattle, diagnostic trial

Immunity, Skin tests

- Boros, D. L.; Tomford, R.; and Warren, K. S., 1977, *J. Immunol.*, v. 118 (1), 373-376
Schistosoma mansoni, induction of granulomatous and elicitation of cutaneous sensitivity by partially purified soluble egg antigens

Immunity, Skin tests

- Bozdech, V., 1976, *Ang. Parasitol.*, v. 17 (2), 70-75
 toxoplasmin skin test, humans, percentage of incidence, higher frequency in males, in females with increasing age: Kaduna, Nigeria

Immunity, Skin tests

- Buening, G. M., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 71-76
Anaplasma marginale, calves (intact, splenectomized, vaccinated, unvaccinated), comparison of results in leukocyte migration inhibition test, complement fixation test, and intradermic skin tests

Immunity, Skin tests

- Camus, D.; et al., 1976, J. Infect. Dis., v. 134 (4), 405-408
Schistosoma mansoni, uninfected children born to infected mothers, intradermal reactions, delayed hypersensitivity to adult antigen

Immunity, Skin tests

- Ceruzzi, O.; et al., 1976, Bol. Chileno Parasitol., v. 31 (3-4), 50-56
Echinococcus granulosus in humans, evaluation of Casoni intradermal skin test comparing results from infected and non-infected persons, suggestions for application in epidemiology and diagnostic surveys

Immunity, Skin tests

- Church, M. K., 1975, Immunology, v. 29 (3), 527-534
Nippostrongylus brasiliensis-sensitized, re-sensitized, or passively sensitized rats, interrelationships of anaphylactic bronchoconstriction, active cutaneous anaphylaxis, and circulating reaginic antibody level

Immunity, Skin tests

- Collins, R. F.; and Ivey, M. H., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 455-459
 skin test responses in guinea pigs infected with small numbers of *Toxocara canis* or *Ascaris suum* and challenged intradermally with several adult and larval somatic antigenic preparations

Immunity, Skin tests

- Collins, R. F.; and Ivey, M. H., 1975, Am. J. Trop. Med. and Hyg., v. 24 (3), 460-464
 passive cutaneous anaphylaxis responses of sensitized guinea pigs to various antigens of adult and larval stages of *Toxocara canis* or *Ascaris suum*; homologous reactions; *Ascaris* larval antigen reacted with *Toxocara* antiserum

Immunity, Skin tests

- Dobson, C.; and Welch, J. S., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (3), 223-228
 survey for antibodies against *Dirofilaria immitis*, *Toxocara canis*, *Ascaris suum*, *Angiostrongylus cantonensis*, *A. mackerrasae*, in patients with eosinophilia using fluorescent antibody test and passive reversed Arthus test in guinea pigs; *D. immitis* implicated as etiologic agent of human eosinophilic meningitis: Australia

Immunity, Skin tests

- Donahoe, J. M. R., 1975, J. Parasitol., v. 61 (4), 599-605
Dirofilaria immitis, cats (exper.), microfilaremia, immediate skin hypersensitivity, cutaneous nodules, chylothorax, low adult worm recoveries, one successful mosquito passage from cat to dog

Immunity, Skin tests

- Ershov, V. S.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 343-348
 anaphylactic shock in guinea pigs after sensitization with free-living or plant-parasitic nematodes and challenge with various helminth antigens indicates antigenic components in common; intradermal tests using antigen from free-living nematode in cases of ascariasis, trichinellosis, and cysticercosis; possible use of free-living nematode to immunize against dictyocaulosis and ascariasis

Immunity, Skin tests

- Forsyth, D. M., 1971, Ann. Trop. Med. and Parasitol., v. 65 (4), 505-511
Schistosoma haematobium, human, skin test, plasma card test, neither sufficiently reliable for use in field estimations of prevalence or for diagnosing infection in individual patients, use for routine diagnostic work condemned but may be tools in schistosomiasis research: Zanzibar, Tanzania

Immunity, Skin tests

- Fuller, G. K.; et al., 1976, Ann. Trop. Med. and Parasitol., v. 70 (2), 147-163
Leishmania donovani, human, epidemiologic skin test survey, endemic area, correlations with age, sex, occupation, parasite pathogenicity and host resistance: northwestern Ethiopia

Immunity, Skin tests

- Garabedian, G. A.; and Zekian-Arslanian, B., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 435-437
 hydatid fluid antigen, filtration through Seitz EK filter pads, unsuitable for use in Casoni skin tests or indirect haemagglutination tests, membrane filters more satisfactory

Immunity, Skin tests

- Ghose, A. C.; and Rowe, D. S., 1977, Immunochemistry, v. 14 (6), 459-465
Leishmania enriettii, subcellular fractionation, antigenic activity of fractions determined by micro-complement fixation, indirect radioimmunoassay, skin testing, and in vitro lymphocyte transformation, results indicate antigenic heterogeneity and suggest that major humoral and cell-mediated components of immune response in infected guinea-pigs are directed against different antigenic determinants of the parasite

Immunity, Skin tests

- Ghosh, T. N., 1976, Trop. and Geogr. Med., v. 28 (2), 145-149
Toxoplasma gondii, humans, evaluation of toxoplasmin skin test in diagnosing suspected infections: Calcutta

Immunity, Skin tests

- Gietko, M.; and Zapart, W., 1975, Pediat. Polska, v. 50 (1), 61-68
 visceral larva migrans in young children with severe eosinophilia, diagnosed by intradermal skin test antigens of *Ascaris lumbricoides* and *Toxocara canis*

Immunity, Skin tests

- Grove, D. I.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (2), 220-229
antigen abstract prepared from subperiodic *Brugia malayi* compared with *Dirofilaria immitis* antigen in diagnosis of human filariasis, concluded that antigens from microfilariae, adult worms, and 3rd-stage larvae of *B. malayi* are more sensitive than *D. immitis* antigens and do not have a significantly higher number of false positive reactions: Philippines

Immunity, Skin tests

- Hammerberg, B.; Musoke, A. J.; and Williams, J. F., 1977, J. Parasitol., v. 63 (2), 327-331
Echinococcus granulosus, factors in hydatid fluid can initiate non-immunologic activation of complement in normal serum and production of anaphylatoxins, this mechanism may be involved in pathogenesis of hydatid fluid shock syndrome and may also contribute to development of non-specific reactivity in immunodiagnostic skin tests for hydatid infection

Immunity, Skin tests

- Harris, W. G., 1973, Immunology, v. 24 (3), 567-577
Schistosoma mansoni allergens, initial separation into 10 fractions, comparative assay by passive cutaneous anaphylaxis, by systemic sensitization with local challenge, and most successfully by a Prausnitz-Kustner type reaction

Immunity, Skin tests

- Harris, W. G., 1975, Immunology, v. 29 (5), 835-844
Schistosoma mansoni, allergens, further separation and characterization by Sephadex G-200 and ion-exchange chromatography, multicomponent nature of allergen-reagin axis in rat schistosomiasis, implications for use of purified antigens for field diagnosis of schistosomiasis

Immunity, Skin tests

- Hayden, D. W.; and Van Kruiningen, H. J., 1975, Am. J. Vet. Res., v. 36 (11), 1605-1614
Toxocara canis, dogs (exper.), eosinophilic gastroenteritis, hematologic findings, serum proteins (β -globulin content as potential diagnostic tool), precipitating humoral antibodies, intradermal test, histopathology, comparison with naturally occurring disease

Immunity, Skin tests

- Healey, M. C.; and Gaafar, S. M., 1977, Vet. Parasitol., v. 3 (2), 133-140
Demodex canis, dogs, immediate and delayed skin reactions to phytohemagglutinin and concanavalin A, suppression of delayed response suggests that dogs with demodicosis may have hypoactive cellular immune system, possible mechanism of immediate response

Immunity, Skin tests

- Herbert, I. V.; and Oberg, C., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 199-211
Taenia solium, incidence in man in Chile, pigs (exper.), immunological responses, in vivo and in vitro manifestations, skin testing, passive cutaneous anaphylaxis, indirect haemagglutination, attempt to correlate with autopsy findings for possible serologic diagnosis, some results with *T. hydatigena* also

Immunity, Skin tests

- Hogarth-Scott, R. S., 1967, Internat. Arch. Allergy and Applied Immunol., v. 32 (2), 201-207
Toxocara canis, *T. cati*, *Toxascaris leonina*, *Ascaris suum*, rabbits (exper.), presence of reagin-like antibodies demonstrable by homologous passive cutaneous anaphylaxis, responsible allergens were common to all 4 nematode species

Immunity, Skin tests

- Hogarth-Scott, R. S., 1973, Immunology, v. 24 (3), 503-509
Nippostrongylus brasiliensis, rats, peripheral circulating allergens as cause of loss of homologous passive cutaneous anaphylaxis reactivity, reaction appeared to be immunologically specific

Immunity, Skin tests

- Hogarth-Scott, R. S.; and Feery, B. J., 1976, Austral. J. Exper. Biol. and Med. Sc., v. 54 (4), 317-327
existence of cross-reacting antigens between *Toxocara canis* and *Ascaris* spp. and probably between *T. canis* and other nematodes confirmed by in vitro and in vivo tests, such cross-reactions compromise usefulness of skin tests in diagnosis

Immunity, Skin tests

- Hoghooghi, N.; et al., 1976, Am. J. Trop. Med. and Hyg., v. 25 (4), 660-661
evaluation of the slide-latex agglutination test and comparison with Casoni intradermal test for sensitivity and specificity in diagnosis of human echinococcosis

Immunity, Skin tests

- Ishizaki, T., 1972, Parasitologia, v. 14 (1), 15-24
Schistosoma japonicum antigens, skin tests in humans, analysis and reproducibility of reactions, development of criteria for positive reactions; threshold phenomena, mechanisms, correlation with histamine release: Yamanishi Prefecture

Immunity, Skin tests

- Ishizaki, T., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 301-305
Schistosoma japonicum, humans, total IgE levels and specific IgE levels, correlation with skin test reaction, effect of niridazole treatment

- Immunity, Skin tests
Janovski, N., 1975, *Plucne Bolesti i Tuberk.*, v. 27 (4), 279-282
human echinococcal cysts of lung, value of skin test in diagnosis, prognosis in lung cysts not removed surgically
- Immunity, Skin tests
Jarrett, E. E. E.; Orr, T. S. C.; and Riley, P., 1971, *Clin. and Exper. Immunol.*, v. 9 (5), 585-594
inhibition of allergic reactions due to competition for mast cell sensitization sites by two reagins (egg albumin reagins and *Nippostrongylus brasiliensis* reagins), practical importance
- Immunity, Skin tests
Jarrett, E. E. E.; and Stewart, D. C., 1973, *Immunology*, v. 24 (1), 37-45
Nippostrongylus brasiliensis, rats, no direct quantitative relationship between size of skin test reactions and level of specific circulating reaginic antibody
- Immunity, Skin tests
Katamine, D., 1969, *Nettai Igaku (Trop. Med.)*, v. 11 (1), 1-10
Wuchereria bancrofti in humans, skin test diagnosis using purified antigen (FPT) prepared from *Dirofilaria immitis*, useful for tool in mass diagnostic survey
- Immunity, Skin tests
Katiyar, J. C.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 169-170 [Letter]
human filariasis, persons undergoing diethyl-carbamazine therapy for *Wuchereria bancrofti*, interference with skin test reactions when *W. bancrofti* used as antigen, review of possible mechanisms
- Immunity, Skin tests
Katz, S. P.; and Colley, D. G., 1976, *Infect. and Immun.*, v. 14 (2), 509-521
Schistosoma mansoni, mice, intradermal response against soluble cercarial antigenic preparation was sequentially mediated by early antibody response and late developing cellular response as demonstrated histologically and by passive transfer of serum and lymphoid cells
- Immunity, Skin tests
Kim, C. W.; Fragola, A. C.; and Rega, R. J., 1977, *J. Parasitol.*, v. 63 (6), 1133-1135
Trichinella spiralis, low dose of antigen in combination with Freund's complete adjuvant is effective in inducing and transferring delayed hypersensitivity in the guinea pig as manifested by skin test reactions, typical histopathology and absence of circulating antibody
- Immunity, Skin tests
Kimura, S., 1975, *Bull. Nippon Vet. and Zotech. Coll.* (24), Dec., pp. 138-142 [Outline of thesis]
Fasciola [sp.], pathogenesis, clinical symptoms, and hematological changes in exper. infected cattle, goats, rabbits, and chickens; morphology in rabbits; intradermal reaction in cattle
- Immunity, Skin tests
Klesius, P. H.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 480-490
Eimeria bovis, cattle, evidence for cell-mediated immune response shown by delayed hypersensitivity skin tests and lymphocyte blastogenesis with antigens extracted from oocysts of *E. bovis* and *E. stiedai*, cross-reactivity between two species
- Immunity, Skin tests
Klesius, P. H.; Kramer, T. T.; and Frandsen, J. C., 1976, *Exper. Parasitol.*, v. 39 (1), 59-68
Eimeria stiedai, rabbits, detection of delayed hypersensitivity by skin testing with oocyst antigen extract, skin reactivity passively transferred with lymphocyte suspensions and cell-free transfer factor but not with serum from infected skin-reactive animals
- Immunity, Skin tests
La Placa, M.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 396-398
partially purified protein and polysaccharide antigens obtained from *Leishmania donovani*, both fractions induce positive intradermal skin reaction, but only the protein fraction detects humoral antibody in complement fixation tests
- Immunity, Skin tests
Lewert, R. M., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 171-175
Schistosoma japonicum, immunodiagnosis of human schistosomiasis, review
- Immunity, Skin tests
Liston, A. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (1), 6 [Demonstration]
Trypanosoma cruzi, *T. dionisii*, *T. vesperilionis*, cell mediated immune responses in mice, some cross-reactivity of antigens but homologous responses stronger
- Immunity, Skin tests
Lopez, O.; et al., 1968, *Bol. Chileno Parasitol.*, v. 23 (1-2), 38-42
human hepatic echinococcosis, hepatic scintigraphy more accurate for diagnosis than customarily employed diagnostic procedures
- Immunity, Skin tests
Machnicka-Roguska, B.; and Zwierz, C., 1970, *Acta Parasitol. Polon.*, v. 17 (20-38), 293-299
Taenia saginata, rabbits, humans, intradermal tests, specificity enhanced by using antigenic fractions rather than full antigens

Immunity, Skin tests

- Mahajan, R. C.; and Chitkara, N. L., 1975, Progr. Drug Research, v. 19, 75-80
human echinococcosis, diagnostic trials comparing the Casoni skin test, bentonite flocculation test (BFT), and indirect hemagglutination test (IHA); both BFT and IHA more sensitive and specific than the Casoni test and together serodiagnosis could be achieved with reasonable degree of certainty

Immunity, Skin tests

- Mahajan, R. C.; Ganguly, N. K.; and Chitkara, N. L., 1976, Indian J. Med. Research, v. 64 (3), 405-409
comparative evaluation of immunodiagnostic techniques for human echinococcosis (fluorescent antibody test; indirect hemagglutination, intradermal Casoni test)

Immunity, Skin tests

- Mansfield, J. M.; and Kreier, J. P., 1972, Infect. and Immun., v. 6 (1), 62-67
Trypanosoma congolense, rabbits (exper.), Arthus-type immediate hypersensitivity reactions demonstrated, no cell-mediated hypersensitivity reactions observed, role of immediate-type skin reaction in pathology of infection and possible use in diagnosis

Immunity, Skin tests

- Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, Immunology, v. 31 (1), 1-19
Leishmania enriettii, L. tropica major, L. aethiopia, L. mexicana amazonensis, numerical immunotaxonomy, differentiation according to reactivity and cross-reactivity in tests of parasite agglutination, indirect immunofluorescence, and passive cutaneous anaphylaxis

Immunity, Skin tests

- Neal, R. A.; and Miles, R. A., 1976, J. Trop. Med. and Hyg., v. 79 (2), 32-37
recommendations for use of various leishmanin antigens in field surveys and seroepidemiologic study based on guinea pig reactions to Leishmania enriettii

Immunity, Skin tests

- Ortiz-Ortiz, L.; et al., 1975, Clin. Immunol. and Immunopathol., v. 4 (1), 127-134
patients with amebic abscess of liver, diminished cell-mediated immunity to Entamoeba histolytica antigens when tested by skin tests and for migration-inhibition factor production, skin reactions to unrelated antigen were normal, 10 days after hospital discharge cell-mediated immune responses to E. histolytica antigen were normal, antibodies were present in sera at all stages

Immunity, Skin tests

- Ourth, D. D.; Lunde, M. N.; and Watson, R. R., 1976, Ztschr. Immunitaetsforsch., v. 151 (3), 254-262
Toxoplasma gondii, guinea pigs, demonstration of delayed hypersensitivity by macrophage migration inhibition, skin-testing, and lymphocyte transformation

Immunity, Skin tests

- Pampiglione, S.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (6), 447-453
Leishmania donovani, serologic screening of population during outbreak of visceral leishmaniasis showed 6 persons with high complement fixing and positive skin tests for leishmanin without clinical symptoms: Northern Italy

Immunity, Skin tests

- Pampiglione, S.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 60-68
Leishmania donovani, statistics of leishmanin skin test survey of old endemic focus and new outbreak area of human Mediterranean leishmaniasis, useful tool for epidemiologic studies: Italy

Immunity, Skin tests

- Pampiglione, S.; et al., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 62-65
human cutaneous leishmaniasis, leishmanin skin test epidemiologic survey of old endemic areas, statistics, no cross-reactions with tuberculin tests: Italian Adriatic coast

Immunity, Skin tests

- Perper, R. J.; Sanda, M.; and Lichtenstein, L. M., 1972, Internat. Arch. Allergy and Applied Immunol., v. 43 (6), 837-844
Ascaris suum, rhesus monkeys, inhibition of dermal allergic reaction by cAMP active agents

Immunity, Skin tests

- Rickard, M. D.; and Katiyar, J. C., 1976, Parasitology, v. 72 (3), 269-279
Taenia pisiformis, partial purification of antigens collected during in vitro cultivation, differential performance in intradermal skin test and rabbit immunization tests suggests that protective antigens and those provoking cell-mediated reactions may be different ones

Immunity, Skin tests

- Rifaat, M. A.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 118-120
Toxoplasma gondii, immunoserological survey for toxoplasmosis conducted by randomly sampling the populations of governorates in Egypt

Immunity, Skin tests

- Roberts, C. O.; Chaparas, S. D.; and McLaughlin, D., 1976, Tr. Am. Micr. Soc., v. 95 (3), 470-482
Toxoplasma gondii, plaque assay technique used to (1) select best tissue culture system for studying progress of infection, (2) assess effect of drugs and antibiotics, (3) observe effect of immune sera on tissue culture infection, and (4) investigate cellular hypersensitivity by in vivo and in vitro systems

Immunity, Skin tests

Rose, M. E., 1977, *Exper. Parasitol.*, v. 42 (1), 129-141

Eimeria tenella, chickens injected in wattle with different antigens, skin hypersensitivity measured at intervals throughout immunization by infection and also after injection of antigens in Freund's complete adjuvant, attempted transfer of skin hypersensitivity with serum or cells, correlation of skin hypersensitivity with in vitro tests

Immunity, Skin tests

Rothwell, T. L. W.; and Huxtable, C. R., 1976, *Austral. J. Exper. Biol. and Med. Sc.*, v. 54 (4), 329-335

Trichostrongylus colubriformis, guinea pigs, basophil leucocytes in cutaneous hypersensitivity reactions

Immunity, Skin tests

Ruiz-Tiben, E.; Cox, P. M.; and Greenberg, E. R., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 341-348

Schistosoma mansoni, human, skin test interpretation, derivation of simplified objective criteria based upon frequency distributions of antigen and control wheal sizes by age and sex: Puerto Rico

Immunity, Skin tests

Sadun, E. H.; Williams, J. S.; and Gore, R. W., 1973, *Isotopes and Radiation Parasitol.* III, 73-90

Schistosoma mansoni, *S. haematobium*, *Trichinella spiralis*, development of radioactive antigen microprecipitin assay (RAMP), comparison with soluble antigen fluorescent antibody and passive cutaneous anaphylaxis tests, results indicate RAMP measures antibody primarily of $I_{G}E$ class

Immunity, Skin tests

Sagua, H.; et al., 1972, *Bol. Chileno Parasitol.*, v. 27 (1-2), 58-60

eosinophilia, intradermal, ring precipitation and bentonite flocculation tests, comparison of results in persons at time of *Trichinella spiralis* infection and 8 1/2 years after infection

Immunity, Skin tests

Sawada, T.; et al., 1975, *Progr. Drug Research*, v. 19, 128-135

human filariasis, diagnosis using *Dirofilaria immitis* adult worm antigen for skin tests, purification of antigen

Immunity, Skin tests

Sawada, T.; Sato, K.; and Takei, K., 1975, *Progr. Drug Research*, v. 19, 119-127

Schistosoma japonicum, purification of antigen from adult worms for use in intradermal diagnostic skin tests

Immunity, Skin tests

Schenone, H.; et al., 1969, *Bol. Chileno Parasitol.*, v. 24 (3-4), 118-121

Trichinella spiralis, human, skin test and bentonite flocculation test, surveys show progressive decline in infection: Santiago, Chile

Immunity, Skin tests

Schenone, H.; et al., 1976, *Bol. Chileno Parasitol.*, v. 31 (3-4), 62-67

echinococcosis, comparison of sensitivity and specificity of the hemagglutination and Casoni skin tests in trials using known infected persons and controls, both tests reasonably useful

Immunity, Skin tests

Schnur, L. F., 1976, *Parasitology*, v. 73 (2), ix-x [Abstract]

leishmaniasis, diagnosis, leishmanial excreted factors as skin test reagents

Immunity, Skin tests

Senft, A. W.; and Maddison, S. E., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (1), 83-89

proteolytic enzyme of *Schistosoma mansoni* induced histaminic skin reactions in laboratory animals without cross reactions from other *Schistosoma* spp., preliminary skin test trials in humans suggest value as diagnostic test for schistosomiasis

Immunity, Skin tests

Shaw, J. J.; and Lainson, R., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 168-169 [Letter]

human cutaneous leishmaniasis, immediate specific intradermal reaction with in vitro exo-antigen used for skin test, comparative trials with *Trypanosoma cruzi* antigens

Immunity, Skin tests

Shaw, J. J.; Lainson, R.; and Minter, D. M., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 258

Trypanosoma cruzi, leishmaniasis in humans, comparison of skin test reactions

Immunity, Skin tests

Sheahan, B. J., 1975, *J. Comp. Path.*, v. 85 (1), 97-110

Sarcoptes scabiei, iron-treated vs. iron-deprived pigs (exper.), histological, histochemical, and ultrastructural changes at skin sites, immediate and delayed hypersensitivity reactions

Immunity, Skin tests

Signorello, G., 1973, *Minerva Med.*, v. 64 (52), 2736-2740

Ascaris lumbricoides in children resulting in cutaneous allergic reactions, skin test diagnosis, frequent mixed infections with *Trichuris trichiura* also diagnosed

Immunity, Skin tests

Singh, D. K.; Jagdish, S.; and Gautam, O. P., 1977, *Research Vet. Sc.*, v. 23 (3), 391-392

Theileria annulata, cattle, cell-mediated immunity demonstrated using leucocyte migration inhibition test and delayed skin hypersensitivity reaction

- Immunity, Skin tests
Soennichsen, N.; and Barthelmes, H., 1976, *Ang. Parasitol.*, v. 17 (2), 65-70
scabies, human, epidemiology, skin tests, cross reactions between *Notoedres alepis* and *Sarcoptes scabiei*, diagnostic value of tests
- Immunity, Skin tests
Szekely, R., 1972, *Bol. Chileno Parasitol.*, v. 27 (3-4), 108-114
application of intradermal skin tests to diagnose human parasites, advantages and limitations, review of techniques
- Immunity, Skin tests
Tchoulamjan, A.; et al., 1977, *Prensa Med. Argent.*, v. 64 (5), 125-138
schistosomiasis, epidemiologic survey of skin-test positive persons in non-endemic area to assess possible infection spread resulting from hydroelectric dam construction projects in neighboring endemic areas: Misiones, Argentine Republic
- Immunity, Skin tests
Teixeira, A. R. L.; and Santos-Buch, C. A., 1975, *Immunology*, v. 28 (3), 401-410
Trypanosoma cruzi, rabbits, strong delayed hypersensitivity skin reactions to 2 subcellular fractions from homogenates of suspensions of trypomastigote and amastigote forms, immediate reactions also seen, cell-mediated immunity assayed by experiments which established passive transfer, inhibition of blood mononuclear cell migration, and blast transformation by sensitized lymphocytes
- Immunity, Skin tests
Todorov, T.; et al., 1976, *Bull. World Health Organ.*, v. 53 (4), 407-415
human echinococcosis, persistence of antibodies after surgical treatment, use in evaluation of surgical results and prognosis
- Immunity, Skin tests
Torisu, M.; et al., 1975, *Clin. Immunol. and Immunopathol.*, v. 4 (4), 467-477
Ascaris lumbricoides, patients with worm migration into biliary tree, skin tests, complement fixation, hemagglutination tests, immunoglobulin levels, pre- and post-surgical results, significant preoperative rise in IgE appears to be dependent on *Ascaris* infection, purified *Ascaris* antigen has high chemotactic effect on eosinophils
- Immunity, Skin tests
Valkoun, A.; and Jira, J., 1977, *J. Protozool.*, v. 24 (2), Suppl., 16A-17A [Abstract]
Toxoplasma gondii, purified antigen for skin test
- Immunity, Skin tests
Varela-Diaz, V. M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (4), 617-622
latex agglutination test is technique of choice for field surveys and seroepidemiologic studies of human *Echinococcus granulosus*, comparative evaluation of indirect agglutination test, immunoelectrophoresis and Casoni skin test
- Immunity, Skin tests
Vernes, A.; et al., 1972, *Path. Biol.*, v. 20 (1-2), 23-29
fascioliasis, schistosomiasis, determination of delayed hypersensitivity reactions in guinea pigs (exper.) using the macrophage migration inhibition test and intradermal skin tests; preliminary investigations of human schistosomiasis gave similar reactions
- Immunity, Skin tests
Vernes, A.; et al., 1973, *Path. Biol.*, v. 21 (10), 1073-1078
Schistosoma mansoni and *S. haematobium* in humans, correlations between macrophage migration test, intradermal tests and a macrophage spreading inhibition test for determination of cell-mediated immune reactions
- Immunity, Skin tests
Vinayak, V. K.; Singh, T.; and Naik, S. R., 1977, *Indian J. Med. Research*, v. 66 (5), 737-744
human ancylostomiasis, intradermal skin test using *Ancylostoma duodenale* larval antigen, useful and rapid screening method for epidemiologic surveys, also recommended as adjunct to fecal examination in individual case diagnosis
- Immunity, Skin tests
Waller, T., 1977, *Lab. Animals*, v. 11 (2), 93-97
Encephalitozoon cuniculi, rabbits, rapid diagnosis by india-ink immunoreaction, comparison with indirect fluorescent antibody and skin hypersensitivity tests
- Immunity, Skin tests
Weisbroth, S. H.; Wang, R.; and Scher, S., 1973, *Lab. Animal Sc.*, v. 23 (2), 241-247
Cuterebra buccata, natural infections of laboratory *Oryctolagus cuniculus*, gross and microscopic aspects of skin lesions, immediate and delayed hypersensitivity reactions to skin tests, detection of circulating precipitins by immunodiffusion tests
- Immunity, Skin tests
Willadsen, P.; and Williams, P. G., 1976, *Immunochemistry*, v. 13 (7), 591-597
Boophilus microplus larvae, isolation of antigen which produces immediate hypersensitivity reaction in naturally infected cattle, characterized as esterase with molecular weight of approximately 60,000
- Immunity, Skin tests
Williams, J. F.; Perez Esandi, M. V.; and Oriol, R., 1971, *Am. J. Trop. Med. and Hyg.*, v. 20 (4), 575-579
evaluation of purified lipoprotein antigens of *Echinococcus granulosus* in the immunodiagnosis of human infection using hemagglutination, immunoelectrophoresis and skin tests

Immunity, Skin tests

Wong, H. S. W.; Embil, J. A.; and Ozere, R. L., 1976, *Exper. Parasitol.*, v. 40 (3), 421-426

Ascaris suum, *Toxocara canis*, guinea pigs sensitized with egg extract antigens, dermal reactivity, macrophage migration inhibition test, and lymphocyte transformation using homologous and heterologous antigens

Immunity, Skin tests

Wosu, N. J.; et al., 1977, *Lab. Animal Sc.*, v. 27 (2), 210-216

Encephalitozoon cuniculi, rabbits (exper.), diagnosis by immunofluorescence and intradermal test, no cross reactions between *E. cuniculi* and experimentally induced *Toxoplasma gondii*, *Eimeria perforans*, or *E. stiedai*

Immunity, Skin tests

Zapart, W.; Slusarski, W.; and Ptasinski, J., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 223-229

human cerebral cysticercosis and echinococcosis, skin testing as valuable adjunct in diagnosis, antigens used were acid soluble protein fractions of *Taenia solium* proglottids, *T. solium* cysts, and *Echinococcus granulosus* protoscolices

Immunity, Skin tests

Zeledon, R.; and Ponce, C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (5), 414-415 [Letter]

human chronic Chagas disease, immediate skin test reaction using soluble protein antigen from parasites grown in culture, cross-reaction from cutaneous leishmaniasis differentiated by Montenegro test

Immunity, Vaccination. See Immunization.

Immunization. [See also Immunity, Passive]

Immunization

Adams, A. C.; John, D. T.; and Bradley, S. G., 1976, *Infect. and Immun.*, v. 13 (5), 1387-1391

Naegleria fowleri, mice (exper.), course of disease dependent upon infecting dose, no significant modification of resistance by bacterial endotoxin or other test substances, high resistance to challenge in mice that survived primary infection

Immunization

Ajayi, J. A.; and Todd, A. C., 1973, *Am. J. Vet. Research*, v. 34 (3), 449-450

Haemonchus contortus, populations of differing pathogenicity used to preimmunize and challenge sheep, ability to distinguish 2 worm populations in sheep exposed to both by separation in curve of distribution frequencies of parasite lengths

Immunization

Alger, N. E.; and Harant, J., 1976, *Exper. Parasitol.*, v. 40 (2), 261-268

Plasmodium berghei, mice, vaccination, heat-treated sporozoites administered iv; attempted adoptive transfer of immunity; preliminary sporozoite fractionation studies

Immunization

Alger, N. E.; and Harant, J., 1976, *Exper. Parasitol.*, v. 40 (2), 269-272

Plasmodium berghei, mice immunized by repeated ip injections of normal mosquito salivary glands or heads were protected from ip sporozoite challenge but not from iv sporozoite challenge, suggested that hypersensitive Type 1 reaction may explain part of this protection

Immunization

Alger, N. E.; and Harant, J., 1976, *Exper. Parasitol.*, v. 40 (2), 273-280

Plasmodium berghei, mice, concluded that hypersensitivity may possibly be at least partly responsible for protection by injections of 70 mosquito salivary glands but that sporozoite immunity is not primarily due to hypersensitivity

Immunization

Alger, N. E.; and Harant, J., 1976, *Science Biol. J.*, v. 2 (3), 89-103

Plasmodium berghei, mice, vaccination, comparison of x-irradiated, heat-treated, or formalin-treated sporozoites administered intravenously, intraperitoneally, intracutaneously, or intramuscularly, some groups given BCG, sodium alginate, or Freund's complete adjuvant

Immunization

Alger, N. E.; and Harant, J., 1976, *Science Biol. J.*, v. 2 (3), 104-110

Plasmodium berghei, mice, vaccination, frozen-thawed sporozoites given IP or IV, comparison with lyophilized, heated, and formalin-treated sporozoites

Immunization

Aminzhanov, M., 1977, *Uzbek Biol. Zhurnal* (2), 57-59

Echinococcus granulosus, dogs immunized with irradiated scolices and cyst fluid, delayed development of parasite in intestine

Immunization

Anderson, W. I.; et al., 1977, *Avian Dis.*, v. 21 (4), 637-641

Eimeria tenella, development of immunity in chicks experimentally infected with infectious bursal disease virus at various times before and during coccidial challenge, results indicate viral infection prior to or concurrent with *Eimeria tenella* immunization significantly reduced immune protection

Immunization

Andreassen, J.; Hindsbo, O.; and Ruitenbergh, J., 1976, *Parasitology*, v. 73 (2), xxx-xxxi [Abstract]

Hymenolepis diminuta in congenitally athymic nude mice, primary immune response is not only thymus-dependent but dose-dependent, failure to show challenge responses may be because immunization doses were too low

Immunization

- Antunes, C. M. F.; et al., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (2), 237-238
Schistosoma mansoni, unsuccessful attempt to obtain infertile live worms in mice (by using nicarbazin in a long therapeutic schedule) to act as 'living vaccine'

Immunization

- Arias, J. R.; Menezes, H.; and de Freitas, R. A., 1976, *Acta Amazonica*, v. 6 (4), 483-485
Leishmania sp., 2 strains, golden hamsters immunized with anti-Chagas "PF" vaccine (Trypanosoma cruzi after 400 passages), no significant reduction of infection

Immunization

- Bajwa, R. S.; and Gill, B. S., 1977, *Ann. Recherches Vet.*, v. 8 (2), 181-186
Eimeria tenella, progeny of irradiated oocysts, sporulation rate, pathogenicity, immunogenicity, reproductive potential, concluded that radiation effects are not transmissible to progeny

Immunization

- Bajwa, R. S.; and Gill, B. S., 1977, *Indian J. Animal Sc.*, v. 47 (3), 126-130
Eimeria tenella, chickens, amprolium in drinking water, development of immunity; treatment more effective with lighter infections, immunization more successful with heavier infections

Immunization

- Bannister, L. H., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 275-276
Plasmodium spp., structural aspects relevant to, and prospects of, vaccination against human malarias, symposium presentation

Immunization

- Barker, L. R., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 586-590
Plasmodium berghei yoelii, mice, primary infection, antibody synthesis and protection persisted at least 17 months, cross-protection against virulent isolate of parent strain but not against P. berghei berghei, not possible to detect persisting antigen or persisting infectious organisms in immune mice

Immunization

- Beaudoin, R. L.; et al., 1976, *Exper. Parasitol.*, v. 39 (3), 438-443
Plasmodium berghei berghei ANKA strain, mice, immunization with irradiated sporozoites protected against challenge with sporozoites but not with erythrocytic stages, immunization of mice with extracts of Anopheles stephensi thorax failed to protect them, mosquito antigens apparently not responsible for protective immunity

Immunization

- Beaudoin, R. L.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 1-5
Plasmodium berghei, mice, immunization against ANKA strain using unaltered sporozoite as antigen, suppressive doses of chloroquine throughout immunization period with curative courses of primaquine prior to challenge, all mice survived sporozoite challenge but succumbed to challenge with infected erythrocytes

Immunization

- Bedell, D. M.; et al., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 91-92
neonatal isoerythrolysis not observed in calves from 12 Angus cows vaccinated with Anaplaz

Immunization

- Behnke, J. M.; and Wakelin, D., 1977, *J. Helminthol.*, v. 51 (3), 167-175
Nematospiroides dubius, stimulation of acquired immunity in inbred strains of mice

Immunization

- Benitez-Usher, C.; et al., 1977, *Vet. Parasitol.*, v. 3 (4), 327-342
Haemonchus contortus, Scottish Blackface lambs, immunization with gamma-irradiated larvae, roles of host age, size of immunizing dose, previous exposure to infection, and anthelmintic (thiabendazole) therapy

Immunization

- Benitez-Usher, C.; Armour, J.; and Urquhart, G. M., 1976, *Vet. Parasitol.*, v. 2 (2), 209-222
Dictyocaulus viviparus, young calves, efficacy of immunization with Dictol below commercial recommendation of 8 weeks of age, concluded that it may be practical to vaccinate milk-fed and suckling calves from 3-4 weeks of age

Immunization

- Bishop, J. P.; and Kuttler, K. L., 1974, *J. Protozool.*, v. 21 (5), 758-760
Babesia rodhaini, effect of irradiation on infectivity dependent upon irradiation dose, development of acquired resistance after inoculation of irradiated parasitized blood, mice

Immunization

- Bitakaramire, P. K., 1973, *Isotopes and Radiation Parasitol.* III, 23-32
Fasciola gigantica, calves, immunization with gamma-irradiated metacercariae, pathology, albumin and iron turnover in vaccinated vs. non-vaccinated groups

Immunization

- Boese, J. L., 1974, *J. Med. Entom.*, v. 11 (5), 503-512
Haemaphysalis leporispalustris, rabbits (ex-
per.), progressive development of host resistance with repeated nymphal infestations depends on frequency rather than intensity of infestations, homocytotropic antibody found in sera of immune rabbits

Immunization

- Bordjochki, A.; Savin, Z.; and Sovitsch, M., 1977, *Bull. Acad. Vet. France*, v. 50 (1), 71-74
Sarcocystis tenella spores, partial or total loss of antigenic properties when heated at various temperatures (60°-90°C), guinea pigs immunized and then tested by complement fixation

Immunization

- Bout, D.; et al., 1977, *J. Immunol. Methods*, v. 15 (1), 1-8
S[*chistosoma*] *mansoni*, schistosomicide drugs used as ligands to isolate target antigens by affinity chromatography, to characterize their enzyme functions and localization on the parasite, and to define their immunogenic capacity

Immunization

- Bray, R. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (3), 258
Plasmodium falciparum in humans, attempted vaccination with irradiated sporozoites unsuccessful

Immunization

- Brocklesby, D. W.; Harradine, D. L.; and Young, E. R., 1976, *Research Vet. Sc.*, v. 21 (3), 300-302
Babesia major infected calves not protected against *B. divergens*; *B. divergens* infections provide good protection against *B. major*; *B. divergens* might be dominant species where both occur

Immunization

- Brown, A. R.; Crandall, C. A.; and Crandall, R. B., 1977, *J. Parasitol.*, v. 63 (5), 950-952
Ascaris suum in mice with X-linked B lymphocyte defect, immune response and acquired resistance

Immunization

- Brown, C. G. D.; et al., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 342-348
Theileria parva, immunization of cattle against East Coast fever by inoculation of a tick-derived (*Rhipicephalus appendiculatus*) stabilate of *T. parva* infective particles and the intramuscular injection at daily intervals of N-pyrrolidinomethyl tetracycline

Immunization

- Brown, K. N., 1977, *Advances Exper. Med. and Biol.*, v. 93, 5-25
 antigenic variation in malaria, review: *Plasmodium knowlesi*, schizont-infected cell agglutination test, protective variant-specific antibodies, induction of antigenic variation, antigenic variation and the cell cycle, antigenic variation and red cell penetration, variant-specific antibody synthesis and protective immunity; *Plasmodium berghei*, lymphocyte subpopulations and immunity transcending antigenic variation; gametocytes, antigenic variation, and protection; antigenic variation and immunization against malaria

Immunization

- Buening, G. M., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 71-76
Anaplasma marginale, calves (intact, splenectomized, vaccinated, unvaccinated), comparison of results in leukocyte migration inhibition test, complement fixation test, and intradermic skin tests

Immunization

- Bussieras, J., 1976, *Rec. Med. Vet.*, v. 152 (3), 219-222
 strongyloses of swine, immunological phenomena, clinical manifestations, applications in diagnosis, prophylaxis and treatment, review

Immunization

- Butcher, G. A.; and Richards, W. H. G., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 277-278
Plasmodium falciparum, present status of culture methods needed to produce a human malaria vaccine, symposium presentation

Immunization

- Cabrera, E. J.; et al., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 31-42
Plasmodium knowlesi, monkeys immunized by antigen from infected erythrocytes, delayed dermal hypersensitivity response, protection against challenge infection; preliminary biochemical analysis of antigen

Immunization

- Cabrera, E. J.; Barr, M. L.; and Silverman, P. H., 1977, *Infect. and Immun.*, v. 15 (2), 461-465
Plasmodium knowlesi-vaccinated *Macaca mulatta*, protection against challenge with heterologous strain present even 4 years after immunization schedule had been completed

Immunization

- Callow, L. L., 1976, *World Animal Rev.* (18), 9-15
Anaplasma centrale, *Babesia argentina*, *B. bigemina*, cattle, factors in transmission by *Boophilus microplus*, immunization with strains from splenectomized calves, review: Australia

Immunization

- Callow, L. L., 1977, *Advances Exper. Med. and Biol.*, v. 93, 121-149
 bovine babesiosis, vaccination, review: biology of *Babesia* of cattle (taxonomy and distribution, life cycle and transmission by ticks, pathological effects, immunology); need for vaccination (epizootic spread, cattle imported to enzootic area, enzootic instability); approaches to vaccination (premunition, surveillance and treatment, chemoprophylaxis, stimulation of nonspecific immunity, experimental approaches to antigen production); vaccination against *B. argentina* (= *bovis*) in Australia; vaccination against *B. bigemina*; future requirements and developments

Immunization

Callow, L. L.; Quiroga, Q. C.; and McCosker, P. J., 1976, *Internat. J. Parasitol.*, v. 6 (4), 307-310

Babesia argentina, *Anaplasma marginale*, comparison of strains of each from Australia vs. Bolivia with indirect fluorescent antibody test showed serological identity of the two strains of each parasite, implications for vaccination; since earlier study showed serological identity between *B. bovis* and *B. argentina*, the small *Babesia* of Australia and South America should by priority be called *B. bovis*

Immunization

Campbell, N. J.; et al., 1977, *Internat. J. Parasitol.*, v. 7 (5), 347-351

Fasciola hepatica, stimulation of resistance in sheep by infection with *Cysticercus tenuicollis*

Immunization

Capbern, A.; et al., 1977, *Exper. Parasitol.*, v. 43 (1), 1-11

Trypanosoma equiperdum, multiplication in diffusion chambers implanted subcutaneously in the dorsal region of mice, effect of immunosuppressants, of immune serum, of temperature, of acquired immunity

Immunization

Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, *Am. J. Vet. Research*, v. 37 (9), 1059-1063

Anaplasma marginale, effect of blood group substances vs. parasitic components on induction of delayed cutaneous hypersensitivity and production of isoagglutinins in cattle injected with live or inactivated parasites in ovine or bovine erythrocytes, results indicate that inactivated sheep origin vaccine may avoid eliciting neonatal isoerythrolysis syndrome in calves from vaccinated dams

Immunization

Carson, C. A.; Sells, D. M.; and Ristic, M., 1976, *Vet. Parasitol.*, v. 2 (1), 75-81

Anaplasma marginale, cattle, cell-mediated immunity and correlation with protection induced by vaccination, review

Immunization

Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, *Am. J. Vet. Research*, v. 38 (2), 173-179

Anaplasma marginale, cell-mediated immune response in cattle given virulent, attenuated and inactivated preparations, measured by leukocyte migration-inhibition test and lymphocyte transformation of blood leukocytes

Immunization

Carson, C. A.; Sells, D. M.; and Ristic, M., 1977, *Am. J. Vet. Research*, v. 38 (8), 1167-1172

Anaplasma marginale, cows (exper.), cell-mediated immunity and severity of clinical symptoms in response to challenge infection after inoculation with virulent, live attenuated, or killed *A. marginale*, effect of chemosterilization on residual immunity

Immunization

Carter, R.; and Chen, D. H., 1976, *Nature*, London (5572), v. 263, 57-60

vaccination of chickens with *Plasmodium gallinaceum* gametes reduced infectivity of malarious chickens for *Aedes aegypti* at least 99.9% below control levels

Immunization

Casarosa, L.; et al., 1976, *Ann. Fac. Med. Vet.*, Univ. Pisa, v. 28, 1975, 71-77

Dictyocaulus filaria, third stage larvae, sensitized with immune sera, in vitro adherence reaction with eosinophils and pyroninophil cells from guinea pigs immunized with *D. filaria* somatic metabolic antigen

Immunization

Casarosa, L.; Lugetti, G.; and Marconcini, A., 1973, *Isotopes and Radiation Parasitol.* III, 113-126

Ascaris suum, guinea pigs vaccinated and then subjected to whole-body irradiation, enteric wall reactivity against challenge, relationship to in vitro adherence reaction

Immunization

Casarosa, L.; Lugetti, G.; and Marconcini, A., 1974, *Ann. Fac. Med. Vet. Pisa*, v. 26, 1973, 385-401

Ascaris suum-vaccinated guinea pigs, total body x-irradiation and challenge infection, enteric wall reactivity, globule leukocytes, immunoglobulin-containing cells; globule leukocytes depleted in challenged hosts; higher number of fluorescing mature plasma cells in lamina propria of vaccinated animals

Immunization

Cena, H., 1976, *Vet. Arhiv*, Zagreb, v. 46 (7-8), 207-214

Taenia saginata, calves (exper.), changes in plasma proteins modified by previous immunization

Immunization

Chaicumpa, S.; et al., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (4), 393-400

Nematosprioides dubius, mice, immunization with live third-stage larvae given orally, intravenously, intraperitoneally, or subcutaneously

Immunization

Chapman, H. D., 1974, *Research Vet. Sc.*, v. 16 (1), 7-11

course of mixed coccidial infection acquired by lambs born at pasture, immunity to challenge following this natural infection and following artificial infection (with primarily *Eimeria ninakohlyakimovae*), betamethasone administration caused increases in oocyst output

Immunization

Chen, D. H.; Tigelaar, R. E.; and Weinbaum, F. I., 1977, *J. Immunol.*, v. 118 (4), 1322-1327

Plasmodium berghei, immunization of T and B cell-deficient mice with x-irradiated sporozoites, results demonstrate preeminent role for T cells in induction of protective immunity against sporozoite infection

Immunization

Christie, E.; and Dubey, J. P., 1977, *Infect. and Immun.*, v. 18 (2), 412-415
cross-immunity between *Toxoplasma gondii* and 6 strains of *Hammondia hammondi* in mice and hamsters

Immunization

Clyde, D. F.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 397-401
immunization of man against sporozoite-induced *Plasmodium falciparum* and *P. vivax* by inoculation with X-irradiated attenuated sporozoites administered by mosquito bite, species specificity of antigen and antibody, no increase in levels of immunoglobulins G and M

Immunization

Cohen, S., 1976, *Ztschr. Immunitaetsforsch.*, v. 152 (2), 80-81 [Abstract]
P[lasmodium] knowlesi, successful vaccination of rhesus monkeys

Immunization

Cohen, S., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 283-286
malarial immunity, differences in immune mechanisms induced by malarial infection vs. merozoite vaccination, symposium presentation

Immunization

Cohen, S.; Butcher, G. A.; and Mitchell, G.H., 1977, *Advances Exper. Med. and Biol.*, v. 93, 89-112
immunization against erythrocytic forms of malaria parasites, review: malaria life cycle; innate and acquired resistance to malaria (specific malarial antibody, protective malarial antibody, synergistic action of malarial antibody and cells, role of specific cell-mediated immunity in malaria, isolation and properties of merozoites); vaccination against erythrocytic forms of malaria (vaccination and challenge using undefined and defined variants of *Plasmodium knowlesi*, adjuvant requirement for successful vaccination)

Immunization

Colley, D. G.; Savage, A. M.; and Lewis, F. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 88-95
Schistosoma mansoni, host responses induced and elicited by cercariae, schistosomula, and cercarial antigenic preparations, workshop report

Immunization

Collins, W. E.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 373-376
Plasmodium knowlesi in *Macaca mulatta* (exper.), attempted immunization using heat-stable serum-soluble antigens, protection incomplete but with fewer deaths and reduced maximum parasitemia than in nonimmunized or Freund's adjuvant-immunized monkeys

Immunization

Coman, B. J.; and Rickard, M. D., 1977, *Internat. J. Parasitol.*, v. 7 (1), 15-20
Taenia pisiformis eggs, ageing process, 4 stages with varying ability to hatch and to infect and develop in rabbits, comparison of in vitro and in vivo estimates of viability, failure of 'senescent' eggs to produce immunity to challenge infection

Immunization

Conder, G. A.; and Duszynski, D. W., 1977, *J. Parasitol.*, v. 63 (2), 206-209
Eimeria nieschulzi, oocysts exposed to heat and/or Co-60 gamma-radiation, attenuation, reduced pathogenesis, subsequent immunity to challenge, rats

Immunization

Cox, A. B.; Duncan S.; and Levy, C. K., 1977, *J. Parasitol.*, v. 63 (5), 927-929
Eimeria falciformis, effects of cobalt irradiation on infectivity and immunogenicity of sporulated oocysts, mice

Immunization

Crum, E. D.; Despommier, D. D.; and McGregor, D. D., 1977, *Immunology*, v. 33 (6), 787-795
Trichinella spiralis, rats, immunization by series of methyridine-terminated oral infections with larvae, thoracic duct lymphocytes from immunized animals can protect normal rats against challenge, protective cells belong to 2 different populations, immune serum and lymph fail to transfer resistance

Immunization

Cunningham, M. P., 1977, *Advances Exper. Med. and Biol.*, v. 93, 189-207
Theileria parva, cattle, immunization, review: stabilates, tissue culture, investigation of quantum of infection hypothesis, irradiation of protozoites harvested from ticks, infection and treatment with drugs in tetracycline series, duration of immunity, cross-immunity, field trials

Immunization

Cunningham, M. P.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 145-154
Theileria parva harvested from infected *Rhipicephalus appendiculatus*, relationship between number of infective particles inoculated into cattle and severity of ensuing infection; effects of irradiation at various doses on suspensions of infective particles of high or low concentration subsequently inoculated into cattle

Immunization

Cunningham, M. P.; et al., 1973, *J. Protozool.*, v. 20 (2), 298-300
Theileria parva infective particles harvested from *Rhipicephalus appendiculatus* using an in vitro feeding technique and subjected to cobalt irradiation, increasing doses of irradiation destroyed increasing numbers of IP's, no evidence that IP's which survived were attenuated, appears unlikely that vaccination against East Coast fever could be achieved using these methods

Immunization

- Cypess, R. H.; and Zidian, J. L., 1975, *J. Parasitol.*, v. 61 (5), 319-324
Heligmosomoides polygyrus, development of self-cure and/or protection, influence of host genetic background (several inbred and outbred mouse strains) and various experimental conditions (route, dose, larval preparation)

Immunization

- Dalgliesh, R. J.; and Stewart, N. P., 1976, *Austral. Vet. J.*, v. 52 (11), 543 [Letter]
Babesia bovis, development of infective forms in unfed *Boophilus microplus* larvae, various temperature conditions, possible use for vaccine

Immunization

- Damian, R. T.; Greene, N. D.; and Meyer, K. F., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (2), 355-357
Schistosoma mansoni Kenyan strain, efficacy as immunizing agent demonstrated in *Macaca mulatta*, confirms that earlier observations on slow manifestation of immunity in *Papio cynocephalus* are real and not due to some peculiarity in this strain of *S. mansoni*

Immunization

- Dargie, J. D.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 249-271
Fasciola hepatica, rats, cattle, sheep, active immunization, passive transfer of immunity by cells and serum, pathogenetic mechanisms underlying development of hepatic fibrosis

Immunization

- Dargie, J. D.; et al., 1977, *J. Helminthol.*, v. 51 (4), 347-357
Schistosoma mattheei, sheep, immunization against virulent strain attenuated by hamster passage, body weights, haematological and biochemical observations, pathophysiological data, clinical observations, parasitological data, gross pathology, histopathology

Immunization

- De Rosa, F.; et al., 1972, *Parassitologia*, v. 14 (2-3), 275-286
 echinococcosis, secondary peritoneal hydatidosis in experimental mice, antigen vaccination; inoculation with scolices, quantitative studies, various factors in receptivity

Immunization

- Desowitz, R. S., 1971, *Science* (3988), v. 172, 1151-1152
Plasmodium berghei, immunization (with non-living antigen) of young white rats born of immune mothers, significantly higher level of immunity than unvaccinated littermates or vaccinated rats born of normal nonimmune mothers

Immunization

- Despommier, D. D.; Campbell, W. C.; and Blair, L. S., 1977, *Parasitology*, v. 74 (1), 109-119
Trichinella spiralis, correlation of in vitro adult worm fecundity with recoverable muscle larvae in immunized and non-immunized rats; in vitro fecundity of individual adult female worms recovered from non-immunized mice; effects of a high vs. a low dose of antigen on adult counts, adult fecundity, and number of recoverable muscle larvae in mice

Immunization

- Dineen, J. K.; et al., 1977, *Internat. J. Parasitol.*, v. 7 (3), 211-215
Trichostrongylus colubriformis-vaccinated sheep, high level of protection against single-species homologous challenge, lowered level of protection against single-species challenge with *T. vitrinus*, no protection against single-species challenge with *Nematodirus spathiger*, high level of protection against all 3 species to simultaneous challenge with all 3 species, latter suggests that terminal effectors of resistance are immunologically non-specific

Immunization

- Dorchies, P., 1975, *Rev. Med. Vet. Toulouse*, v. 126 (10), 1237-1248
 helminthiasis, delayed and immediate hypersensitivity, immunological tolerance, epidemiological and pathological aspects, application to diagnosis and immunization, review

Immunization

- Dragneva, N., 1972, *Izvest. Tsentral. Khel-mint. Lab.*, v. 15, 81-87
Fasciola hepatica, rats, vaccination with somatic antigens does not produce significant protection but metabolic antigens produce relative immunity

Immunization

- Duke, B. O. L.; and Garner, A., 1975, *Tropen-med. und Parasitol.*, v. 26 (4), 435-448
Onchocerca volvulus, rabbits (exper.) pre-immunized with live or freeze-killed microfilariae and later challenged by subconjunctival inoculation of live microfilariae, severe ocular pathology resulted with live microfilariae, minimal reaction with killed; possible immunological bearing on human infection

Immunization

- Duxbury, R. E.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 179-180
Trypanosoma rhodesiense, mice, rats, cattle, rhesus monkeys; *T. congolense*, mice, dogs, cattle; *T. brucei*, cattle: attempted immunization with irradiated trypanosomes, brief communication

Immunization

- Duxbury, R. E.; Sadun, E. H.; and Anderson, J. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 266-267 [Abstract]
Trypanosoma rhodesiense, recently isolated human strain, immunization of rhesus monkeys using gamma-irradiated trypanosomes

Immunization

- Duxbury, R. E.; Sadun, E. H.; and West, J. E., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 484-485
 Trypanosoma rhodesiense, mice, neutron and gamma radiation of trypanosomes for immunization

Immunization

- Dwivedi, S. K.; and Gautam, O. P., 1977, Indian J. Animal Sc., v. 46 (12), 1976, 627-629
 Babesia bigemina, splenectomized calves, berenil treatment during acute stage, no immunity to challenge with heterologous strain; treatment during carrier stage, survival after heterologous challenge

Immunization

- Dymowska, Z.; Migdalska, Z.; and Kraus, A., 1971, Med. Dosw. i Mikrobiol., v. 23 (2), 167-173
 Toxoplasma, immunized rabbits (exper.), evaluation of immune and cellular reactions using percent pattern of hemogram

Immunization

- Eckert, J.; and Eisenegger, H., 1976, Zentralbl. Vet.-Med., Beihefte (25), 155-160
 Dictyocaulus viviparus, cattle, program for management and control, vaccination with Dictol, tetramisole treatment; Ostertagia ostertagi, Cooperia oncophora, pyrantel tartrate treatment to control concurrent infection limiting weight gain

Immunization

- Eling, W.; and Jerusalem, C., 1977, Tropenmed. u. Parasitol., v. 28 (2), 158-174
 Plasmodium berghei infected mice (exper.), immunization studies using sulfathiazole-treated drinking water and comparison with para-aminobenzoic acid deficient diet for control of parasitic proliferation during sensitization period; balance between suppressive effect of drug and survival of parasites in treated host is important for induction of immunity

Immunization

- Eling, W.; and Jerusalem, C., 1977, Tropenmed. u. Parasitol., v. 28 (3), 293-301
 Plasmodium berghei, Swiss and C3H/StZ mice (exper.), evaluation of conditions that may affect immunizing capacity of inoculum; actual immunizing capacity depends on magnitude and time of initiation of sulfathiazole treatment after inoculation as well as conditions of storage, medium, and temperature; conditions leading to immunity are apparently strain specific

Immunization

- Ellis, J. C.; Bourns, T. K. R.; and Rau, M. E., 1975, Canad. J. Zool., v. 53 (12), 1803-1811
 Trichobilharzia ocellata, previously infected Anas platyrhynchos and A. rubripes exposed to homologous challenge infections, migration, growth and development, and condition compared to initial infection

Immunization

- El-On, J.; and Greenblatt, C. L., 1973, J. Protozool., v. 20 (4), 531
 Trypanosoma lewisi, T. acomys, growth in vitro at 37°C. in culture media with mammalian cells, rats partially protected against T. lewisi after receiving 6 injections of concentrated culture supernatant fluid

Immunization

- El-On, J.; and Greenblatt, C. L., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 19-20 [Demonstration]
 Trypanosoma lewisi, production of exoantigens during cultivation at 37°C, partial protection against infection in rats injected with concentrated culture supernatant fluid

Immunization

- Emmerson, F. R.; Knott, S. G.; and Callow, L. L., 1976, Austral. Vet. J., v. 52 (10), 451-454
 Babesia argentina, beef cattle, field vaccination trials: southeastern Queensland

Immunization

- Ershov, V. S.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 343-348
 anaphylactic shock in guinea pigs after sensitization with free-living or plant-parasitic nematodes and challenge with various helminth antigens indicates antigenic components in common; intradermal tests using antigen from free-living nematode in cases of ascariasis, trichinellosis, and cysticercosis; possible use of free-living nematode to immunize against dictyocaulosis and ascariasis

Immunization

- Farlow, G. E., 1976, Internat. J. Parasitol., v. 6 (6), 513-516
 Babesia rodhaini, B. argentina, differences in infectivity when incubated in plasma vs. serum, role of glucose in prolonging viability, relevance of findings to living babesial vaccines in which plasma- and serum-based diluents may be used

Immunization

- Farrell, J. P., 1976, Exper. Parasitol., v. 40 (1), 89-94
 Leishmania donovani, acquired resistance in Mesocricetus auratus, previous subcutaneous infection confers ability to limit visceral parasite numbers after intracardial challenge, possible model for study of immunity to kala-azar

Immunization

- Faubert, G. M., 1977, Exper. Parasitol., v. 43 (2), 336-341
 Trichinella spiralis in Swiss mice, expulsion rate during primary and challenge infections, numbers of encysted muscle larvae also needed as assay for immunity, response of plaque-forming cells to sheep red blood cells in challenge infections used to determine timing of immunosuppression

Immunization

Feteanu, A.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 101-111
Syngamus trachea, chicks, pheasants, immunization with irradiated larval antigen, fluorescent antibody technique for detection of serum antibodies

Immunization

Finerty, J. F.; and Krehl, E. P., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 377-381
Plasmodium berghei yoelii, reactions in mice immunized with malarial antigen show that cell-mediated immunity depends on route of immunization and type of antigen

Immunization

Fox, J. C., 1976, *Vet. Parasitol.*, v. 1 (3), 209-220
Obeliscoides cuniculi, inhibited development in rabbits: effects of active and passive immunization and resumption of larval development (fewer males developed than females), data indicate that host immune responses contribute to inhibition and that worm egg production is also responsive to immunologic control

Immunization

Fregene, A. O.; et al., 1975, *J. Parasitol.*, v. 61 (6), 1070-1073
 comparative responses of radioattenuated *Trypanosoma brucei* and *T. congolense* in rats: radiation sensitivity with respect to infectivity; immunogenicity

Immunization

Fromentin, H., 1974, *J. Protozool.*, v. 21 (3), 470 [Abstract]
Trypanosoma brucei gambiense strain M'Bala Victor, ability to protect against 2 heterologous strains (Eliane and Huguette), mice

Immunization

Fu, H.-M.; and Lee, Y.-C., 1976, *J. Chinese Soc. Vet. Sc.*, v. 2 (2), 51-55
Eimeria tenella, chickens inoculated with chemical attenuated oocysts, safe initial infection, satisfactory protection against reinfection

Immunization

Gallie, G. J.; and Sewell, M. M. H., 1976, *Trop. Animal Health and Prod.*, v. 8 (4), 233-242
Taenia saginata, immunization of calves with intramuscular inoculation of non-living antigen or hatched eggs, or oral infection of unhatched eggs, antibody response to challenge infection, serological and haematological responses

Immunization

Gaur, S. N. S.; and Dutt, S. C., 1976, *Indian Vet. J.*, v. 53 (4), 305-306
 immunizing effect of single dose of irradiated *Ascaris suum* eggs, mice, guinea pigs, pathologic changes

Immunization

Gaur, S. N. S.; and Dutt, S. C., 1977, *Pantnagar J. Research*, v. 2 (1), 80-84
Ascaris suum eggs, immunizing effect in mice, rats and guinea-pigs against migratory juveniles; double immunizing doses in mice produced stronger immunity but more tissue damage

Immunization

Gaur, S. N. S.; Dutt, S. C.; and Sokolic, A., 1975, *Ceylon Vet. J.*, v. 23 (3-4), 46-48
Ascaris suum, mice, attenuation of eggs with various doses of gamma-rays, infectivity of developing larvae; preliminary to immunization studies

Immunization

Gill, B. S.; et al., 1976, *Nature* (5584), v. 264, 355-356
Theileria annulata, calves, vaccination with schizonts grown in tissue culture, full immunity to severe tick (*Hyalomma dromedarii*) challenge

Immunization

Gill, B. S.; et al., 1977, *Ann. Recherches Vet.*, v. 8 (3), 285-292
Theileria annulata, cattle, successful immunization by infecting with one-tick stabilate (*Hyalomma dromedarii*) and simultaneous treatment with chlortetracycline

Immunization

Gill, B. S.; Bhattacharyulu, Y.; and Kaur, D., 1976, *Research Vet. Sc.*, v. 21 (2), 146-149
Theileria annulata, calves, tick-induced infections (*Hyalomma anatolicum anatolicum* or *H. dromedarii*), immunization using chlortetracycline prophylactically

Immunization

Gold, D.; and Lengy, J., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (2), 265-266
Schistosoma mansoni, mice, failure to immunize by therapeutic eradication (Ambilhar) of adult worm burden, corollary finding that 60-day primary infection did not confer any significant protection against challenge

Immunization

Golenser, J.; et al., 1977, *Clin. and Exper. Immunol.*, v. 29 (1), 43-51
Plasmodium berghei, rats immunized with sporozoites or infected blood, indirect fluorescent antibody tests, crossreactivity using as antigen sporozoites, exoerythrocytic forms, or blood schizonts, protection or lack of protection against challenge with sporozoites or infected blood

Immunization

Golenser, J.; Verhave, J. P.; and Meuwissen, J. H. E. T., 1977, *Parasitology*, v. 75 (2), xxxi-xxxii [Abstract]
Plasmodium berghei, specificity of antibody responses to different life-cycle stages, results indicate different antigenic determinants but also certain common antigens

Immunization

Gonzalez, E. F.; Todorovic, R. A.; and Thompson, K. C., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 427-437

Anaplasma marginale, *Babesia argentina*, and *B. bigemina* in calves (exper.), immunization, economical method using minimum infective doses of parasite stabilates produced mild post-immunization reactions but conferred complete protection against blood-borne challenge, evaluation under laboratory conditions shows promise

Immunization

Gonzalez Capna, S. M.; et al., 1976, *J. Parasitol.*, v. 62 (1), 130-131

Trypanosoma cruzi, stability of protective ability of homogenate prepared by compression-decompression procedure at different pressures, mice

Immunization

Grymberg, N.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (1), 35-36

mice, immunization with *Crithidia fasciculata* (live suspension, ribosomal fraction, and purified RNA) induced certain degree of protection (decrease of parasitaemia) against infection with *Trypanosoma cruzi*

Immunization

Guerrero, J.; and Silverman, P. H., 1972, *Rev. Invest. Pecuarias*, v. 1 (2), 209-213

Ascaris suum, larval culture method, metabolic antigens immunizing mice

Immunization

Gwadz, R. W., 1976, *Science* (4258), v. 193, 1150-1151

Plasmodium gallinaceum, reduction or elimination of gametocyte infectivity and oocyst development in *Aedes aegypti* by immunizing chickens on which mosquitoes feed with formalin or x-ray treated infected red blood cells, protection apparently related to immobilization of microgametes in mosquito gut and associated with IgG fraction of serum

Immunization

Hamburger, J.; and Zuckerman, A., 1976, *Exper. Parasitol.*, v. 39 (3), 479-495

Plasmodium berghei, soluble extract, separation into 12 fractions by preparative disc electrophoresis, employment of fractions to seek precipitins in hyperimmune rat serum and in the vaccination of rats

Immunization

Handman, E.; et al., 1974, *J. Biol. Standardization*, v. 2 (3), 223-229

Leishmania tropica vaccine, production and properties, standardization and quality control

Immunization

Handman, E.; et al., 1977, *J. Protozool.*, v. 24 (2), Suppl., 20A-21A [Abstract]

Leishmania tropica, mice, protection by vaccination with non-living antigenic preparation

Immunization

Hanson, W. L., 1977, *Advances Exper. Med. and Biol.*, v. 93, 281-283

Trypanosoma cruzi, mice, immunization, review

Immunization

Hanson, W. L.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 117-131

Trypanosoma cruzi, detection of small numbers of viable or virulent parasites in blood and other fluids by Vero cell culture procedure or by mouse inoculation, immunization of mice with irradiated trypomastigotes and amastigotes, serology as determined by indirect fluorescent antibody and agglutination tests

Immunization

Hanson, W. L.; Chapman, W. L., jr.; and Waits, V. B., 1976, *Internat. J. Parasitol.*, v. 6 (4), 341-347

Trypanosoma cruzi, mice, immunization with irradiated cell culture stages, effect of numbers of parasites, numbers of immunizing injections, and route of immunization

Immunization

Hanson, W. L.; Chien, J. J.; and Chapman, W. L., jr., 1973, *J. Protozool.*, v. 20 (4), 511

Trypanosoma cruzi, Brazil strain exposed to various quantities of irradiation, ability to produce infections in cell cultures and in mice and to induce resistance in mice

Immunization

Hargreaves, B. J.; et al., 1975, *Ann. Trop. Med. and Parasitol.*, v. 69 (3), 289-299

Plasmodium berghei yoelii, mice, protective immunity induced by mild parasite strains against virulent line, effect of increased inocula and time course of infection, further studies testing cross-protection against *P. b. berghei* and *P. v. vinckei*

Immunization

Harness, E.; Hughes, D. L.; and Doy, T. G., 1976, *Internat. J. Parasitol.*, v. 6 (1), 15-17

Fasciola hepatica, mice, demonstration of pre-hepatic immune response possibly operating in intestinal wall or gut mucus

Immunization

Hashemi-Fesharki, R.; and Shad-Del, F., 1973, *Am. J. Vet. Research*, v. 34 (11), 1465-1467

Theileria annulata, vaccination of calves and milking cows with cell-suspension culture, immunity persisted for more than 1 year

Immunization

Hayes, T. J.; Bailer, J.; and Mitrovic, M., 1975, *Research Vet. Sc.*, v. 19 (1), 86-87

Fasciola hepatica, significant resistance to second infection in both splenectomized and sham-operated rats, presence of spleen not necessary for development of protective immunity to superinfection in rats

Immunization

Hayes, T. J.; and Mitrovic, M., 1977, *J. Parasitol.*, v. 63 (3), 584-587

Fasciola hepatica, rats, results indicate that protective immunity is expressed within first 24 hours after challenge, dexamethasone abrogated protective effect of previous infection

Immunization

Heath, D. D., 1976, *Internat. J. Parasitol.*, v. 6 (1), 19-24

Taenia pisiformis larvae developing in vitro, period when protective antigens are elaborated, immunizing potential of non-living antigens from in vitro culture for rabbits, exogenous antigens more protective than somatic, biochemical analysis of exogenous antigens

Immunization

Heath, D. D.; and Chevis, R. A. F., 1975, *Vet. Parasitol.*, v. 1 (2), 159-163

Taenia pisiformis, rabbits, immunization with viable eggs or with activated oncospheres followed by mebendazole chemotherapy at various intervals, time course required for development of immunity

Immunization

Hein, H. E., 1976, *Exper. Parasitol.*, v. 40 (2), 250-260

Eimeria acervulina, *E. brunetti*, *E. maxima*, *E. necatrix*, immunogenic potential under precisely defined conditions which provide standards enabling comparisons between species and strains to be made, found that high level of resistance to reinfection was conferred by multiple infections with relatively low doses of oocysts

Immunization

Hepler, D. I.; and Lueker, D. C., 1976, *Abst. Ann. Meet. Am. Soc. Microbiol.*, 76

Nematospiroides dubius, mice (exper.), cellular and humoral response after oral immunization

Immunization

Hepler, D. I.; Lueker, D. C.; and Rubin, R., 1976, *J. Parasitol.*, v. 62 (3), 491-492

Nematospiroides dubius, vaccination, immune response of outbred mouse strains stronger than inbred ones, oral route of administering larvae superior to subcutaneous route, steroid hormones blocked expression of immunity in subcutaneously vaccinated mice but not in orally vaccinated ones

Immunization

Herbert, W. J.; and Inglis, M. D., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 268 [Abstract]

Trypanosom[a] brucei, mice, immunization by administration of syngeneic red blood cells which had been exposed to plasma taken from infected animals

Immunization

Herd, R. P., 1977, *Internat. J. Parasitol.*, v. 7 (2), 135-138

Echinococcus granulosus, dogs, immunization studies using arrested development and inhibition of egg production as criteria, indications that certain dogs have natural resistance which is not mediated by specific antibodies or sensitized lymphocytes to tapeworm secretory antigens

Immunization

Herlich, H.; and Douvres, F. W., 1977, *J. Dairy Sc.*, v. 60 (2), 283-288

parasitism and calfhood diseases, immunity, immunization, pathology, review

Immunization

Hillyer, G. V., 1976, *Fed. Proc.*, v. 35 (14), 2568-2571

Fasciola hepatica antigens used in protecting against *Schistosoma mansoni* challenge, common and/or cross-reacting antigens between *S. mansoni*, *S. japonicum*, and *F. hepatica*, possible role of eosinophil in acquired resistance

Immunization

Hillyer, G. V.; del Llano de Diaz, A.; and Reyes, C. N., 1977, *Exper. Parasitol.*, v. 42 (2), 348-355

Schistosoma mansoni, mice, hamsters, immunization using antigens of *Fasciola hepatica*

Immunization

Hines, H. C., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 77-80

anaplasmosis, cattle, Anaplaz vaccine as a possible cause of isohemolytic disease of calves

Immunization

Hines, H. C.; et al., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 82-85

Anaplasma marginale, presence of bovine blood group antigens in Anaplaz, ability to elicit antibody response, effects upon calves of vaccination of their dams

Immunization

Holbrook, T. W.; Spitalny, G. L.; and Palczuk, N. C., 1976, *J. Parasitol.*, v. 62 (5), 670-675

mice immunized with *Plasmodium fallax* exo-erythrocytic stages, stimulation of resistance to sporozoite-induced *P. berghei* malaria

Immunization

Hopkins, C. A.; Goodall, R. I.; and Zajac, A., 1977, *Parasitology*, v. 74 (2), 175-183

Hymenolepis diminuta, *H. microstoma*, mice, effect of primary immunizing infection with one species on growth and survival of secondary infection with heterologous species; data on longevity and pattern of worm loss in primary *H. microstoma* infections in mice; results show that *H. microstoma* in low level infections is able to evade host immune response, heavier worm burden initiates worm loss which may be physiologically ('crowding effect') rather than immunologically mediated

Immunization

Hopkins, C. A.; and Zajac, A., 1976, Parasitology, v. 73 (1), 73-81
Hymenolepis diminuta, transplanted into various classes of mice (naive mice receiving cortisone, naive mice, irradiated naive mice, immunized mice, irradiated immunized mice), differences in time course of rejection response, surgical stress as a possible source of error

Immunization

Howard, R. J., 1976, Parasitology, v. 72 (3), 317-323
Hymenolepis microstoma, mice infected with 1, 5, or 10 cysticercoids, infections terminated after 5, 16, or 30 days, challenge with 6 cysticercoids, growth of worms in secondary infections decreased as either intensity or duration of primary infections increased

Immunization

Hsu, S. Y. L.; et al., 1975, J. Reticuloendothel. Soc., v. 18 (3), 167-185
Schistosoma japonicum, rhesus monkeys, mechanism of immunity studied by histopathologic examinations of skin lesions elicited during immunizations and challenge with cercariae, role of cell-mediated immunity, significance of time of appearance of eosinophils, role of synergistic and cooperative functions of T and B cells

Immunization

Hsu, S. Y. L.; et al., 1976, J. Parasitol., v. 62 (6), 914-926
Schistosoma mansoni, *S. japonicum*, rhesus monkeys immunized with highly X-irradiated cercariae, lethal antibody in sera, in vitro effect on schistosomula (perischistosomular precipitate, perischistosomular envelope)

Immunization

Hsu, S. Y. L.; et al., 1977, Exper. Parasitol., v. 43 (1), 189-195
Schistosoma japonicum-immunized *Macaca mulatta*, exposure to highly irradiated cercariae as a test to determine prechallenge state of immunity by studying histopathological lesions in skin, test appears to be harmless to hosts

Immunization

Hsu, S. Y. L.; and Hsu, H. F., 1975, J. Parasitol., v. 61 (6), 1108-1109
Schistosoma japonicum, rhesus monkeys immunized with cercariae exposed to high doses of X-irradiation, technique for quantitating recovery rates of schistosomula in skin

Immunization

Huang, R. J.; and Lee, Y. C., 1975, J. Chinese Soc. Vet. Sc., v. 1 (2), 104-110
Eimeria tenella, chickens, immunization by use of anticoccidials

Immunization

Huchzermeyer, F. W., 1976, J. South African Vet. Ass., v. 47 (4), 253-254
Eimeria, chickens, immunization by vaccination with low dose of *Eimeria* and controlled exposure, method of choice in coccidiosis control, brief review: Rhodesia

Immunization

Hughes, D. L.; Anderson, J. C.; and Harness, E., 1976, Exper. Parasitol., v. 40 (3), 355-362
Fasciola hepatica, rats sensitized either by subcutaneous implantation of adult flukes or by normal oral infection, challenge by subcutaneous vs. intraperitoneal route, comparison of responses

Immunization

Hughes, D. L.; Anderson, J. C.; and Harness, E., 1976, Parasitology, v. 73 (2), xxvi [Abstract]
Fasciola hepatica, rats, combination of various sensitization and challenge routes

Immunization

Hughes, D. L.; Harness, E.; and Doy, T. G., 1977, Nature, London (5611), v. 267, 517-518
Fasciola hepatica, rats with long-standing infection have lost ability to kill transferred adult flukes, however if these same rats are reinfected with metacercariae their ability to kill the challenge flukes is restored

Immunization

Hughes, D. L.; Harness, E.; and Doy, T. G., 1977, Parasitology, v. 75 (2), x-xi [Abstract]
Fasciola spp., ability of immunized rats to kill adult flukes

Immunization

Hungerer, K. D.; et al., 1976, Ztschr. Parasitenk., v. 50 (2), 221-222
Trypanosoma cruzi, possibility of chemical attenuation by substances blocking metabolic regulation of protein by DNA in order to develop live vaccine

Immunization

Hussain, Q. Z.; et al., 1976, Indian J. Med. Research, v. 64 (12), 1836-1840
Plasmodium berghei in rats, successful immunization with liver antigen

Immunization

Hussain, Q. Z.; et al., 1976, Indian J. Med. Research, v. 64 (12), 1841-1843
Plasmodium cynomolgi in rhesus monkeys, successful immunization with membrane antigen

Immunization

Ilardi, A.; Guglielmi, S.; and Proietti, A.M., 1972, Parassitologia, v. 14 (2-3), 317-324
X-irradiation of *Leishmania* and *Leptomonas* forms of strain 2S of *Leishmania donovani*, hamsters, protection increases as irradiation increases

Immunization

Irvin, A. D.; et al., 1976, J. Comp. Path., v. 86 (1), 51-57
Theileria parva-infected bovine lymphoid cells grown in mice, immunization of cattle with cells passaged in mice

Immunization

- Iwata, A.; et al., 1976, Nippon Zyuisi-Kai Zassi (J. Japan. Vet. Med. Ass.), v. 29 (12), 673-675
piroplasmiasis, Holstein cows, time interval between virulent blood inoculation and acquisition of immunity

Immunization

- James, D. M., 1976, Internat. J. Parasitol., v. 6 (2), 179-182
Trypanosoma brucei, T. congolense, induction of protective immunity in rodents receiving living trypanosomes pretreated with isometamidium chloride or diminazene aceturate tetrahydrate

Immunization

- James, E., 1977, Colloque Cryoimmunol. (Dijon, June 17-19, 1976), 355-359
Schistosoma mansoni, S. bovis, S. mattheei, cryopreservation, a possible technique for storage of live attenuated vaccine (schistosomula prepared artificially from cercariae)

Immunization

- James, E. R.; and Denham, D. A., 1975, J. Helminth., v. 49 (1), 43-47
mice immunized to intestinal stage of Trichinella spiralis by drug-abbreviated infections, significant reduction in muscle larvae which encysted following normal complete challenge infection, no significant protection against challenge with parenteral stages, stage-specificity of immune response

Immunization

- James, E. R.; and Farrant, J., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 498-500
Schistosoma mansoni, successful recovery of infective schistosomula after storage in liquid nitrogen; only small percentage developed to adult worms, but technique shows promise for future storage of a live schistosomiasis vaccine

Immunization

- James, E. R.; Moloney, A.; and Denham, D. A., 1977, J. Parasitol., v. 63 (4), 720-723
Trichinella spiralis, mice, immunogenicity of parenteral phase confirmed, resistance stimulated by this phase does not affect the intestinal phase

Immunization

- James, E. R.; and Taylor, M. G., 1976, J. Helminth., v. 50 (4), 223-233
Schistosoma mansoni, six techniques for transformation of cercariae to schistosomula, comparative efficiency, infectivity of transformed organisms for mice by six different routes of administration, implications for immunization experiments

Immunization

- Jedreas, A., 1976, Med. Wet., v. 32 (2), 73-75
Dictyocaulus filaria, sheep, immunization by vaccine of normal or X-irradiated larvae; animals vaccinated twice, highly resistant to challenge dose; however, vaccination by high doses of normal larvae sometimes caused death

Immunization

- Jedreas, A., 1976, Med. Wet., v. 32 (9), 525-529
Dictyocaulus filaria, sheep, immunization with irradiated and non-irradiated larvae, challenged with non-irradiated larvae

Immunization

- Jenkins, D. C., 1977, Exper. Parasitol., v. 41 (2), 335-340
Nematospiroides dubius, course of primary and challenge infections in male and female Meriones unguiculatus, rate of establishment, morphology, sex ratio and distribution within host intestine, expulsion in primary infections, resistance to challenge infections, lactating jirds with depressed immunocompetence were significantly more susceptible to reinfection than nulliparous jirds of same age

Immunization

- Jenkins, S. N., 1976, Parasitology, v. 73 (2), xiv [Abstract]
Trichuris muris, immunization with whole male and stichocyte antigen preparations and with 'exo' antigen obtained by incubation of adult worms, analysis of functional antigens by immunodiffusion and physicochemical treatments

Immunization

- Jenkins, S. N.; and Wakelin, D., 1977, Parasitology, v. 74 (2), 153-161
Trichuris muris, mice, vaccination with whole male worm extract, stichosome extract, and short-term incubation fluid in attempt to localize protective antigens and investigate them physico-chemically, concluded that one of protective immunogens is protein which can be associated with precipitin line and originates in stichosome

Immunization

- Jeon, Y.; Kim, D. S.; and Jeong, S. J., 1975, Research Rep. Office Rural Develop., Min. Agric. and Forest., Korea, v. 17, 45-49
Babesia, cattle, experimental infection for immunization, recovery with persistence of antibodies as shown by indirect fluorescent antibody test

Immunization

- John, D. T., 1974, Proc. Helminth. Soc. Washington, v. 41 (2), 121-126
Angiostrongylus cantonensis, mice (exper.), acquired immunity, weight loss occurred to a lesser degree in immunized mice, they experienced a greater leukocytosis

Immunization

- John, D. T.; Weik, R. R.; and Adams, A. C., 1977, Infect. and Immun., v. 16 (3), 817-820
mice, immunization with Naegleria fowleri or N. gruberi, protection against otherwise lethal N. fowleri challenge

Immunization

- Joyner, L. P.; and Norton, C. C., 1976, Parasitology, v. 72 (1), 115-125
Eimeria maxima, E. acervulina, chicks, immunity arising from continuous low-level infections was stronger and/or more enduring than that produced by single inoculations of comparable numbers of oocysts

Immunization

- Karlsson, T.; and Reid, W. M., 1977, Poultry Science, v. 56 (5), 1727-1728 [Abstract]
Eimeria tenella, broilers given immunizing doses of *E. tenella* failed to develop immunity while being medicated with monensin; developed partial immunity if medicated with robenidine or zoalene

Immunization

- Kassai, T.; et al., 1973, Isotopes and Radiation Parasitol. III, 51-60
Dictyocaulus filaria, sheep and goats, laboratory investigation of immunity induced by irradiated vs. non-irradiated larvae, marked resistance following infection with normal larvae, irradiated larvae failed to prevent re-infection in sheep but did in 3 of 5 goats; sheep, field trials of radiation-attenuated vaccine compared to efficacy of anthelmintic treatment, no protection shown in vaccinated sheep

Immunization

- Katz, S. P.; and Colley, D. G., 1976, Infect. and Immun., v. 14 (2), 502-508
Schistosoma mansoni, mice, induction of cellular and humoral immunological reactivity to soluble cercarial antigen preparation, assayed by in vitro lymphocyte blastogenic activity and by presence of agglutinating and reaginic antibody activity

Immunization

- Kazacos, K. R., 1975, Vet. Parasitol., v. 1 (2), 165-174
Trichinella spiralis-immunized rats, increased resistance to *Nippostrongylus brasiliensis*, heterologous and homologous tests of immune precipitate formation on infective larvae

Immunization

- Kazacos, K. R., 1976, J. Parasitol., v. 62 (1), 161-163
Mesocostoides corti, immunization of mice by subcutaneous inoculation of living tetrathyridia

Immunization

- Kazacos, K. R.; and Thorson, R. E., 1975, J. Parasitol., v. 61 (3), 525-529
 rats, immunization with *Nippostrongylus brasiliensis* or *Strongyloides ratti* protected against homologous and heterologous challenge; precipitates formed on infective larvae incubated in vitro in homologous or heterologous immune globulins

Immunization

- Kazacos, K. R.; and Thorson, R. E., 1975, Proc. Helminth. Soc. Washington, v. 42 (2), 170-171
Mesocostoides corti larval excretory and secretory (ES) antigens had no effect on the establishment and development of *Hymenolepis diminuta* cysticercoids in rats

Immunization

- Kendall, S. B.; Small, A. J.; and Phipps, L. P., 1977, J. Comp. Path., v. 87 (4), 551-555
Oesophagostomum quadrispinulatum, pigs (exper.), repeated infection with 500 larvae induced a solid resistance in about 50 days, barrier to reinfection develops against third stage larvae

Immunization

- Kerr, K. M.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 80 [Abstract]
 neonatal isoerythrolysis produced experimentally in calves from dams hyperimmunized against their sire (an Angus bull that had had a high incidence of neonatal isoerythrolysis in his calves when the dams were inoculated with a bovine blood-based anaplasmosis vaccine)

Immunization

- Kerr, K. M.; McKnelly, S.; and Bridges, C. H., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 86-90
 incidence of neonatal isoerythrolysis in calves in a herd of registered Brangus cows previously vaccinated with Anaplaz; lesions, clinical signs, and treatment of affected calves; limitations of predicting which cows will give birth to affected calves; possibilities of selecting bulls for future mating with the cows to prevent recurrence of disease in subsequent calves

Immunization

- Khoury, P. B.; and Soulsby, E. J. L., 1977, Exper. Parasitol., v. 41 (2), 432-445
Ascaris suum, immunized guinea pigs given challenge infections, lymphoid cell responses of draining lymph nodes and spleen, in vitro antigen-induced lymphocyte transformation, rosette formation, rosette inhibition, and rosette-plaquing techniques

Immunization

- Kierszenbaum, F.; and Howard, J. G., 1976, J. Immunol., v. 116 (5), 1208-1211
 differences in susceptibility to and immunization against *Trypanosoma cruzi* (Y and Tulahuen strains) in Biozzi high vs. low responder mice, correlation between antibody-forming potential and susceptibility, protection of low responders by passive transfer of immune plasma

Immunization

- Klucas, C. A.; and Rhodes, M. B., 1976, Proc. Nebraska Acad. Sc., 20
Ascaris suum, hatching fluid, immunization of pigs

Immunization

- Knopf, P. M.; and Cioli, D., 1976, Ztschr. Immunitaetsforsch., v. 152 (2), 94-95 [Abstract]
Schistosoma mansoni, induction of resistance to cercarial challenge by intra-mesenteric vein injection of live or fixed adult schistosomes, rats

Immunization

Knopf, P. M.; Nutman, T. B.; and Reasoner, J. A., 1977, *Exper. Parasitol.*, v. 41 (1), 74-82
Schistosoma mansoni, resistance to reinfection in rats, effects of varying experimental parameters, concluded that resistance not due to nutritional limitation on worm survival or to expulsion of primary-infection worms but is the result of an absolute decrease of challenge-infection worms in twice-infected rats

Immunization

Kohls, R. E.; Engle, A. T.; and Butters, H. E., 1972, *Avian Dis.*, v. 16 (4), 907-914
 coccidiosis in laying chickens (exper.), continuous buquinolate medication, good protection with increased egg production and egg quality, immune status at termination

Immunization

Komandarev, S.; and Mikhov, L., 1973, *Izvest. Tsentral. Khelmit. Lab.*, v. 16, 111-118
Trichinella spiralis-immunized mice, immunity to homologous and heterologous (*Ascaris suum*) challenge

Immunization

Koufman, Z.; et al., 1977, *J. Protozool.*, v. 24 (2), Suppl., 18A [Abstract]
Leishmania tropica, human, immunization trials: Israel

Immunization

Kramer, L. D.; and Vanderberg, J. P., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (6, pt. 1), 913-916
Plasmodium berghei, mice, albumin enhances protection of intramuscularly injected irradiated sporozoites probably by increasing motility but intravenously injected sporozoites still offer more protection

Immunization

Krettli, A.; Chen, D. H.; and Nussenzweig, R. S., 1973, *J. Protozool.*, v. 20 (5), 662-665
Plasmodium berghei, *P. cynomolgi*, sporozoites isolated by density-gradient centrifugation, infectivity, ability to induce protective immunity and formation of antisporezoite antibodies, in vitro reactivity in circum-sporozoite precipitation reaction

Immunization

Kuil, H.; et al., 1977, *Vet. Parasitol.*, v. 3 (1), 33-40
Eimeria maxima, *Eimeria acervulina*, chickens, effect of inoculation dose on indirect fluorescent antibody response, difference in immunogenicity between two species substantiated by difference in IFA response after challenge, reinoculation with *Eimeria maxima* indicated that birds were immune but single infection with *Eimeria acervulina* did not result in solid immunity

Immunization

Kumar, V.; and Mortelmans, J., 1976, *Parasitology*, v. 72 (1), 13-18
Metastrongylus apri, guinea pigs, levamisole-terminated prepatent infection, stimulation of strong immunity to challenge, increase in serum gamma-globulin levels

Immunization

Kuttler, K. L.; and Johnson, L. W., 1977, *Vet. Med. and Small Animal Clin.*, v. 72 (8), 1354, 1356-1359
Anaplasma marginale, *Babesia bigemina*, B. argentina, Holstein heifers destined for shipment to Nicaragua, premunition by inoculation with organisms, oxytetracycline given to heifers administered attenuated or non-attenuated *A. marginale*; apparently resistant to field challenge in Nicaragua

Immunization

Kwa, B. H.; and Liew, F. Y., 1977, *J. Exper. Med.*, v. 146 (1), 118-131
Taenia taeniaeformis, rats, vaccination with somatic antigen and excretory antigen and with purified fractions of both, stimulation of immediate-type and delayed-type hypersensitivity reactions, highly significant protection against challenge infection

Immunization

Lang, B. Z., 1976, *J. Parasitol.*, v. 62 (2), 232-236
Fasciola hepatica, treatment of 16-day-old flukes in anti-worm incubate sera and anti-25-day infection sera, significant decrease in ability to continue migration in normal recipient mice; successful vaccination with a crude incubate antigen

Immunization

Lang, B. Z.; and Hall, R. F., 1977, *J. Parasitol.*, v. 63 (6), 1046-1049
Fasciola hepatica, white mice, successful vaccination with culture incubate antigens and antigens from sonic disruption of immature worms

Immunization

Lepes, T., 1973, *Acta Parasitol. Jugoslavica*, v. 4 (1), 13-24
 malaria, immune response, its basic elements and serological and immunological techniques for measuring it, possibilities for immunization, review

Immunization

Lepp, D. L.; and Todd, K. S., jr., 1974, *J. Protozool.*, v. 21 (2), 199-206
Isospora canis in dogs (exper.), description, endogenous cycle, localization in small intestine; failure to reinfect previously infected dogs

Immunization

Leutskaia, Z. K., 1975, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 25, 71-90
Ascaridia galli in chicks, role of vitamin A in immunogenesis (increase of resistance, specific immunity, antibody formation), specifically, role in immunization

Immunization

Liburd, E. M.; Armstrong, W. D.; and Mahrt, J. L., 1973, *Cellular Immunol.*, v. 7 (3), 444-452
Eimeria nieschulzi in rats, investigation of normal immune response and of adoptive immunity with primed thoracic duct lymphocytes

Immunization

Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70

Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)

Immunization

Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 86-95

Anaplasma marginale, *A. centrale*, cattle, homologous and heterologous indirect fluorescent antibody and capillary tube agglutination responses to primary infection and reinfection and to cross-infection with the heterologous organisms, clinical reactions; *A. centrale* carrier animals showed high degree of premunity to severe challenge with *A. marginale*

Immunization

Long, P. L.; and Millard, B. J., 1975, *J. Protozool.*, v. 22 (3), 53A [Abstract]

Eimeria tenella embryo-adapted strain, failure to regain pathogenicity for chickens after 62 embryo passages, single immunizing dose confers protection against pathogenic strain, successful infection of duck and quail embryos

Immunization

Long, P. L.; and Millard, B. J., 1977, *Avian Path.*, v. 6 (1), 77-92

chickens immunised against *Eimeria* using repeated low level infections with attenuated strains of *E. tenella* and *E. acervulina* var. *mivati* alone or together with *E. brunetti*, *E. maxima*, *E. necatrix*

Immunization

McCarthy, V. C.; and Clyde, D. F., 1977, *Exper. Parasitol.*, v. 41 (1), 167-171

Plasmodium vivax, human, correlation of circumsporozoite precipitation reaction with sporozoite-induced protective immunity

Immunization

McGhee, R. B.; Singh, S. D.; and Weathersby, A. B., 1977, *Exper. Parasitol.*, v. 43 (1), 231-238

Plasmodium gallinaceum, chicks, vaccination with embryo-adapted strain, completely effective as protection against erythrocytic stages

Immunization

McHardy, N., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 11-16

Trypanosoma cruzi, mice, immunization with vaccine of freeze-thawed cultured epimastigotes with or without saponin adjuvant, effects of variation in size and route of both immunizing and challenge inocula

Immunization

McHardy, N.; and Simpson, R. M., 1973, *Trop. Animal Health and Prod.*, v. 5 (3), 166-173

Anaplasma marginale (South African and Kenyan strains), attempted immunization of cattle using a killed vaccine with saponin as adjuvant

Immunization

Macy, R. W., 1973, *J. Wildlife Dis.*, v. 9 (1), 44-46

Sphaeridiotrema globulus, Pekin ducklings, high degree of acquired resistance following initial infection

Immunization

Mahoney, D. F.; and Mirre, G. B., 1974, *Research Vet. Sc.*, v. 16 (1), 112-114

extraction of infective material of *Babesia argentina* from larval stages of *Boophilus microplus*, use in infecting calves, potential source of erythrocyte-free parasites for vaccination and study of antigens

Immunization

Mahoney, D. F.; and Wright, I. G., 1976, *Vet. Parasitol.*, v. 2 (3), 273-282

Babesia argentina, cattle, immunization with killed antigen against infection with heterologous strain, effect of vaccination on certain pathological parameters

Immunization

Mahoney, D. F.; Wright, I. G.; and Mirre, G. B., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (2), 197-203

Babesia argentina, *B. bigemina*, calves, persistence of immunity after natural infection in early life and subsequent tick-free maintenance, concluded that animals naturally infected during calfhood are unlikely to require vaccination for protection against babesiosis in later life

Immunization

Manger, B. R., 1976, *Parasitology*, v. 73 (2), xiii-xiv [Abstract]

Nematospiroides dubius, mice, anthelmintic-terminated immunizing infections (Cambendazole selected as most active), variation in degree of protection between host strains, timing of termination of immunizing infection indicated exsheathment per se not essential in production of resistance, protection could not be transferred with serum alone

Immunization

Menezes, H., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 418-421

Trypanosoma cruzi, epimastigote forms of avirulent strain successfully used to immunize mice (exper.) against challenge with a virulent homologous strain

Immunization

Meremins'kii, A. I., 1975, *Veterinariia*, Kiev (42), 84-90

Liorchis scotiae, experimental immunization of calves with adolestarica, challenged with superinfection

Immunization

Miller, L. H., 1977, *J. Infect. Dis.*, v. 135 (5), 855-864

human malarias, current prospects and problems in developing a vaccine for malaria immunization

Immunization

Miller, L. H., 1977, *Advances Exper. Med. and Biol.*, v. 93, 113-120
malaria, critique of merozoite and sporozoite vaccines

Immunization

Miller, L. H.; Powers, K. G.; and Shiroishi, T., 1977, *Exper. Parasitol.*, v. 41 (1), 105-111

Plasmodium knowlesi in rhesus monkeys, no correlation between functional immunity and results of 2 in vitro tests (schizont-infected cell agglutination test; suppression of merozoite invasion by immune serum)

Immunization

Minard, P.; Murrell, K. D.; and Stirewalt, M. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 491-499

Schistosoma mansoni cercaria, material secreted by preacetabular gland sufficiently immunogenic to induce antibodies in mice (exper.) but not sufficient to afford protection against subsequent infections

Immunization

Mitchell, G. H., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 281-282

Plasmodium knowlesi malaria in rhesus monkeys (exper.), techniques for isolation of merozoites for use in experimental vaccines, review of current status, symposium presentation

Immunization

Mitchell, G. H.; et al., 1977, *Clin. and Exp. Immunol.*, v. 28 (2), 276-279

Plasmodium knowlesi, rhesus monkeys, effectiveness of freeze-dried merozoite vaccine in protecting against homologous or heterologous variant blood challenge

Immunization

Mitchell, G. H.; et al., 1977, *Lancet*, London (8026), v. 1, 1335-1338

Plasmodium falciparum, successful vaccination of *Aotus trivirgatus griseimembra* (exper.) with erythrocytic merozoites, immunity specific for *falciparum* malaria, technique for isolating merozoites from infected human blood

Immunization

Movsesijan, M.; et al., 1975, *Acta Vet. Beograd*, v. 25 (5), 255-259

Eimeria spp., chickens administered single oral dose of irradiated oocysts resistant to subsequent challenge dose of non-irradiated oocysts, irradiated and non-irradiated *E. tenella* antigenically more potent than *E. necatrix* and *E. brunetti* and produced highest titres of specific antibodies

Immunization

Mugera, G. M.; Bitakaramire, P. K.; and Munyua, W. K., 1973, *Isotopes and Radiation Parasitol.* III, 129-137

cattle, immunization against East Coast fever using *Theileria parva*-infected *Rhipicephalus appendiculatus* irradiated at graded doses, comparison of immunity produced by attachment of ticks vs. inoculation of tick tissue, circulating antibodies demonstrated by capillary agglutination test

Immunization

Munyua, W. K.; Mugera, G. M.; and Bitakaramire, P. K., 1973, *Bull. Epizoot. Dis. Africa*, v. 21 (1), 75-85

cattle, pathogenesis and pathology of East Coast fever induced by gamma irradiated *Theileria parva* infected *Rhipicephalus appendiculatus*, immunogenesis

Immunization

Murray, M.; and Urquhart, G. M., 1977, *Advances Exper. Med. and Biol.*, v. 93, 209-241

African trypanosomiasis, immunoprophylaxis, review: cattle and sheep, laboratory animals; chemotherapeutic agents and immunity, nature of protective antigen, effector mechanisms in protection, manipulation of host resistance

Immunization

Murrell, K. D.; Dean, D. A.; and Stafford, E. E., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (6, pt. 1), 955-962

resistance to infection with *Schistosoma mansoni* after immunization with worm extracts or live cercariae: role of cytotoxic antibody in mice and guinea pigs

Immunization

Musaev, M. A.; and Elichev, Ia. Ia., 1975, *Izvest. Akad. Nauk Azerbaidzhan. SSR, s. Biol. Nauk* (3), 84-93

Eimeria tenella, chickens, infection and immunization with large doses of oocysts, changes in blood serum protein and protein fraction levels

Immunization

Nansen, P., 1975, *Research Vet. Sc.*, v. 19 (3), 278-283

Fasciola hepatica, calves inoculated with gamma-irradiated metacercariae, significant resistance to natural infection in the field

Immunization

Norman, B. B., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 103-106

Anaplasma marginale, cattle, current status of preimmunization and vaccination for control

Immunization

Norton, C. C.; and Hein, H. E., 1976, *Parasitology*, v. 72 (3), 345-354

Eimeria maxima, comparison of 3 strains (Weybridge, Houghton, and a fresh field isolate), oocyst measurements, pathogenicity, oocyst production, immunity to homologous not heterologous challenge, chickens

Immunization

Nussenzweig, R. S., 1977, *Advances Exper. Med. and Biol.*, v. 93, 75-87

immunoprophylaxis of malaria, sporozoite-induced immunity, review: sporozoite-induced protective immunity in rodent malaria, characteristics and possible mechanisms; simian malaria immunization (*Plasmodium cynomolgi*-rhesus monkey system); immunization of man against sporozoite-induced malaria

Immunization

Olson, L. J., 1976, *Internat. J. Parasitol.*, v. 6 (3), 247-251

Toxocara canis larvae in mouse eye, distribution within various eye tissues and effect of previous infection on numbers and distribution, onset and development of hemorrhagic and white cell lesions in anterior eye following challenge of immunized and control mice

Immunization

Opuni, E. K.; and Muller, R. L., 1975, *J. Helminth.*, v. 49 (3), 199-204

Spirometra theileri, mice, attempted immunization with 3 procedures (antigen plus adjuvant, antigen alone, active infection), none conferred absolute immunity but gave some protection, serological and histological findings indicate involvement of both cellular and humoral elements

Immunization

Ortiz-Ortiz, L.; Gonzalez-Mendoza, A.; and Lamoyi, E., 1975, *J. Immunol.*, v. 114 (4), 1424-1425

Trypanosoma cruzi, mice, nonspecific immunization with BCG elicited significant protection

Immunization

Osorno, B. M.; et al., 1975, *Am. J. Vet. Research*, v. 36 (5), 631-633

Anaplasma marginale, young cattle, attenuated vaccine, evaluation of protection induced against challenge exposure of naturally transmitted anaplasmosis in enzootic areas of Mexico, concluded that vaccine provided means for safe adaptation of high-quality young cattle to tropics

Immunization

Osorno, B. M.; and Ristic, M., 1977, *Veterinaria, Mexico*, v. 8 (3), 85-98

Anaplasma marginale, bovine, control, diagnosis, distribution, use of attenuated vaccine of *A. marginale*, review: Mexico

Immunization

Osorno, B. M.; Solana, M. P.; and Ristic, M., 1973, *Proc. 6. National Anaplasmosis Conf.* (Las Vegas, Nevada, March 19-20, 1973), 113-116

Anaplasma marginale, cattle, safety and efficacy of attenuated University of Illinois vaccine in inducing protection against artificial challenge with virulent Mexican *Anaplasma* strain of known potency

Immunization

Parodi, A. S.; et al., 1971, *Medicina, Buenos Aires*, v. 31 (5), 369-371

Trypanosoma cruzi, human volunteers injected with experimental immunizing antigen (disrupted epimastigotes), humoral antibody response and local reactions

Immunization

Pelster, B., 1975, *Ztschr. Parasitenk.*, v. 48 (2), 95-110

Toxoplasma gondii, immunized mice, superinfection not causing death, cellular immune reactions, mouse exudate containing high percentage of lymphocytes; peritoneal exudate cells incubated in vitro with trophozoites cause their death by lysis

Immunization

Penev, P.; Nikolova, M.; and Stefanova, M., 1975, *Vet. Med. Nauk.*, v. 12 (9), 46-50

Eimeria tenella, infection of chickens previously infected with Marek's disease, inability to build up stable immunity against subsequent *Eimeria tenella* infection

Immunization

Penev, P.; and Stefanova, M., 1975, *Vet. Med. Nauki*, v. 12 (5), 111-115

Eimeria tenella, immunogenic ability of oocysts following treatment with gamma rays

Immunization

Pereira, N. M.; et al., 1977, *J. Protozool.*, v. 24 (4), 511-514

Crithidia fasciculata, *Herpetomonas samuelpeessoai*, *Leishmania tarentolae*, isolation of flagella, 3 types of flagella give similar electrophoretic pattern of proteins, *H. samuelpeessoai* and to a lesser extent *C. fasciculata* flagella confer protection against *Trypanosoma cruzi* infections in mice

Immunization

Pettersen, E. K., 1977, *Acta Path. et Microbiol. Scand.*, v. 85B (1), 95-102

Toxoplasma gondii, avirulent strain made virulent by mouse passage and then attenuated by storage, comparison of cyst-forming abilities in mice and rabbits, rabbits infected with attenuated parasites survived challenge with virulent parasites

Immunization

Phillips, R. S., 1973, *Isotopes and Radiation Parasitol.* III, 173-177

Babesia rodhaini, protective immunization of mice and rats with irradiated infected red cells, use in demonstrating antigenic variation, review

Immunization

Phillips, R. S., 1976, *Parasitology*, v. 73 (2), xii [Abstract]

Plasmodium berghei, mice, immunization with irradiated infected red cells, *Bordetella pertussis* and B.C.G. as potentiators of protection induced

Immunization

Phillips, S. M.; Reid, W. A.; and Sadun, E. H., 1977, *Cellular Immunol.*, v. 28 (1), 75-89

Schistosoma mansoni, rats, development of strong and effective immunity within 1 week following initial exposure, immunity stimulated by and directed against early stage-specific forms of infection, mechanisms not clear but partially mediated through development of specific protecting immunoglobulin

Immunization

Pipano, E.; et al., 1977, *Vet. Parasitol.*, v. 3 (1), 11-22

Theileria annulata, cattle, immunization using killed schizont vaccine, protection against blood challenge but not against tick-transmitted infection, high antibody levels not correlated with protection

Immunization

Playfair, J. H. L.; de Souza, J. B.; and Cottrell, B. J., 1977, *Immunology*, v. 33 (4), 507-515

Plasmodium yoelii, *P. vinckei*, *P. berghei*, mice, regime of killed homologous vaccine plus *Bordetella pertussis* adjuvant, differences between species in effectiveness of protection, some cross-protection but largely species-specific, passive transfer of immunity to *P. yoelii* by serum or spleen cells

Immunization

Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 182-193

Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection

Immunization

Poulain, J.; Pery, P.; and Luffau, G., 1976, *Ann. Immunol.*, v. 127C (2), 209-213

Nippostrongylus brasiliensis, rats, vaccination with worm homogenates, whole fixed worms, or metabolic products administered orally, metabolic products induced highest level of protection

Immunization

Premvati, G.; and Chopra, A. K., 1977, *Indian J. Zoot.*, v. 16 (1), 1975, 1-5

Nippostrongylus brasiliensis, infective larvae exposed to various doses of ultraviolet rays, development, sex ratio of adult worms, no resistance in rats challenged with lethal dose of untreated larvae subsequent to lethal dose of irradiated larvae

Immunization

Preston, P. M.; Dumonde, D. C., 1976, *Clin. and Exper. Immunol.*, v. 23 (1), 126-138

Leishmania tropica in CBA mice as experimental model of leishmaniasis in man: relationship of inoculum dose to size and duration of lesions, antibody production, and delayed hypersensitivity responses; infections manifest both during and after healing stages; immunization with sonicated promastigotes; lymphoid cells from immune mice conferred protection upon recipients

Immunization

Purnell, R. E.; and Brocklesby, D. W., 1977, *Research Vet. Sc.*, v. 23 (2), 255-256

Babesia divergens, limited protection against isologous and homologous challenge observed in splenectomized calves inoculated with lyophilised plasma from infected animal

Immunization

Purnell, R. E.; Brocklesby, D. W.; and Sellwood, S. A., 1973, *Isotopes and Radiation Parasitol.* III, 169-171

Babesia major-infected bovine erythrocytes, ⁶⁰Co-irradiation and subsequent injection into splenectomized calves, irradiation at 30 or 50 kR appeared to destroy virulence without altering immunogenicity but results must be interpreted with caution because of the presence of *Eperythrozoon tuomii* in blood of calves after challenge

Immunization

Radley, D. E.; et al., 1975, *Vet. Parasitol.*, v. 1 (1), 35-41

Bos taurus, chemoprophylactic (oxytetracycline) immunization against *Theileria parva* (Muguga) or each of 5 recently-isolated theilerial strains (4 *T. parva* and 1 *T. lawrencei*), response to homologous and heterologous challenge

Immunization

Radley, D. E.; et al., 1975, *Vet. Parasitol.*, v. 1 (1), 43-50

Bos taurus immunized either by chemoprophylaxis (oxytetracycline) or sub-lethal infection against various strains of *Theileria lawrencei* or *T. parva*, response to homologous and heterologous challenge

Immunization

Radley, D. E.; et al., 1975, *Vet. Parasitol.*, v. 1 (1), 51-60

Bos taurus, chemoprophylactic (oxytetracycline) immunization using a combination of theilerial strains (*Theileria parva* and *T. lawrencei*), response to challenge better than animals immunized with only 1 or 2 strains

Immunization

Rajasekariah, G. R.; and Howell, M. J., 1977, *J. Helminthol.*, v. 51 (4), 289-294

Fasciola hepatica, recovery of juveniles from various sites in immune and control rats, gut as barrier to metacercariae of challenge infection

Immunization

Ramachandran, C. P., 1975, *Kajian Vet.*, v. 7 (1), 31-38

helminths, immunization with radiation attenuated vaccines, review

Immunization

Ranatunga, P.; and Wanduragala, L., 1972, *Brit. Vet. J.*, v. 128 (1), 9-18

Babesia bigemina, *Anaplasma centrale*, pre-munization of Jersey cattle imported to Ceylon from New Zealand, reactions and haematology

Immunization

Rao, Y. V. B. G.; Mehta, K.; and Subrahmanyam, D., 1977, *Exper. Parasitol.*, v. 43 (1), 39-44

Litomosoides carinii, albino rats, effects of irradiation on development of infective larvae, immunization with irradiated infective larvae, immune response in vaccinated animals, effect of irradiation on microfilariae, effect of immunization with irradiated microfilariae

Immunization

Reeves, J. D. III; and Swift, B. L., 1977, *Vet. Med. and Small Animal Clin.*, v. 72 (5), 911-914

Anaplasma marginale, transmission to cow via vaccination needle first used to inoculate a carrier cow

Immunization

Reisen, W. K.; and Hillis, T. C., 1975, *J. Parasitol.*, v. 61 (5), 937-940

Plasmodium berghei, failure to protect mice with footpad injections of killed parasites incorporated in complete Freund's adjuvant, possible explanations for failure to immunize

Immunization

Richards, W. H. G., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 279-280

Plasmodium spp., possible immunization against sporozoite challenge, review, symposium presentation

Immunization

Richards, W. H. G.; et al., 1977, *Parasitology*, v. 74 (2), 191-198

Plasmodium knowlesi, merozoite vaccination of *Macaca mulatta*, immunity to sporozoite (mosquito-transmitted) challenge even if challenge strain was different from that used for vaccination, implications for development of human malaria vaccine

Immunization

Richards, W. H. G.; and Latter, V. S., 1977, *Parasitology*, v. 75 (2), xxix-xxx [Abstract]

Plasmodium gallinaceum, chicks, immunization

Immunization

Richey, E. J.; et al., 1977, *Am. J. Vet. Research*, v. 38 (2), 169-170

Anaplasma marginale, cattle, resistance after chlortetracycline elimination of latent infections is similar to that after killed-antigen vaccination of animals with no record of infection

Immunization

Rickard, M. D.; and Adolph, A. J., 1976, *Vet. Parasitol.*, v. 1 (4), 389-392

calves vaccinated with antigens collected during in vitro cultivation of larval *Taenia ovis*, *T. hydatigena*, or *T. saginata*, resistance to subsequent challenge with *T. saginata*

Immunization

Rickard, M. D.; and Adolph, A. J., 1977, *Parasitology*, v. 75 (2), 183-188

Taenia ovis, lambs, successful vaccination using antigens collected during short-term in vitro incubation of activated oncospheres

Immunization

Rickard, M. D.; Adolph, A. J.; and Arundel, J. H., 1977, *Research Vet. Sc.*, v. 23 (3), 365-367

Taenia saginata, pregnant cows vaccinated with culture antigens conferred passive immunity on their calves via colostrum, these calves were themselves vaccinated with culture antigen at 8 to 10 weeks of age and showed strong immunity to challenge infection

Immunization

Rickard, M. D.; Boddington, E. B.; and McQuade, N., 1977, *Research Vet. Sc.*, v. 23 (3), 368-371

Taenia ovis, pregnant ewes vaccinated with culture antigens conferred passive immunity on their lambs via colostrum; single vaccination with culture antigens stimulated high level of immunity which persisted for at least 12 months in lambs

Immunization

Rickard, M. D.; and Coman, B. J., 1977, *Internat. J. Parasitol.*, v. 7 (4), 257-267

Taenia hydatigena, *T. ovis*, *T. pisiformis*, rabbits, cross immunity, penetration of oncospheres into host intestinal epithelium, degree of development in host liver following oral infection with eggs, enhancement of *T. pisiformis* challenge infection following vaccination with *T. ovis* culture antigen

Immunization

Rickard, M. D.; and Katiyar, J. C., 1976, *Parasitology*, v. 72 (3), 269-279

Taenia pisiformis, partial purification of antigens collected during in vitro cultivation, differential performance in intradermal skin test and rabbit immunization tests suggests that protective antigens and those provoking cell-mediated reactions may be different ones

Immunization

Rickard, M. D.; White, J. B.; and Boddington, E. B., 1976, *Austral. Vet. J.*, v. 52 (5), 209-214

oral challenge with *Taenia ovis* eggs using 3 levels of pasture contamination, lambs, immunization with *T. ovis* culture antigen prevented establishment of new cysticerci better than previous natural exposure but failed to stimulate complete immunological response, presence of *T. hydatigena* in lambs did not prevent subsequent infection with *T. ovis*

Immunization

Rieckmann, K. H.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 258-259 [Letter]

Plasmodium falciparum, sporozoite induced immunity in human using infected irradiated mosquitoes

Immunization

Rietschel, G., 1975, *Ztschr. Parasitenk.*, v. 47 (4), 283-297

Oestromyia leporina, hatching, mode of infection of *Microtus arvalis*, larval development, migration within host, duration of larval stages, perforation of skin; partial immunization against new infection

Immunization

Ristic, M., 1976, *Vet. Parasitol.*, v. 2 (1), 31-47

intracellular blood protista: intraerythrocytic behavior, transfer, and circulatory clearance; survival and development within macrophages; persistence of organism in immunologically hostile host; immune responses and protection; serodiagnosis; vaccination

Immunization

Ristic, M.; and Carson, C. A., 1977, *Advances Exper. Med. and Biol.*, v. 93, 151-188
bovine anaplasmosis, immunoprophylaxis, review: *Anaplasma marginale*, biologic properties, antigenic and serologic studies, persistence in immunologically hostile host, various immunogens, immune responses to inactivated *A. marginale* vaccines, immune response to live attenuated and virulent *A. marginale*, vaccination studies with attenuated *A. marginale*, proposed mechanism of protection induced by this vaccine, statistical analysis, application for prevention of anaplasmosis

Immunization

Roberts-Thomson, I. C.; et al., 1976, *J. Immunol.*, v. 117 (5), pt. 2, 2036-2037
Giardia muris, mice, prior infection results in resistance to subsequent challenge

Immunization

Robson, J.; et al., 1977, *Trop. Animal Health and Prod.*, v. 9 (4), 219-231
East Coast fever immunization of Zebu cattle with 3 isolates of *T. parva*, natural challenge of *T. parva* and *T. mutans*, some protection: Uganda

Immunization

Rose, J. H., 1976, *Research Vet. Sc.*, v. 21 (1), 76-78
immunization of lambs using metabolites from *Ostertagia circumcincta* grown in vitro and living worms at various stages of development, degree of protection shown by worm burdens, worm lengths, and faecal worm egg counts

Immunization

Rose, M. E., 1976, *Vet. Rec.*, v. 98 (24), 481-484
poultry coccidiosis, immunity and prospects for immunoprophylaxis, review

Immunization

Rose, M. E., 1977, *Exper. Parasitol.*, v. 42 (1), 129-141
Eimeria tenella, chickens injected in wattle with different antigens, skin hypersensitivity measured at intervals throughout immunization by infection and also after injection of antigens in Freund's complete adjuvant, attempted transfer of skin hypersensitivity with serum or cells, correlation of skin hypersensitivity with in vitro tests

Immunization

Rose, M. E.; and Hesketh, P., 1976, *Parasitology*, v. 73 (1), 25-37
Eimeria maxima, determination of life-cycle stages which induce protective immunity (second generation schizont probably most concerned), stages affected by immune response (sexual stages most susceptible), chickens

Immunization

Rothwell, T. L. W.; and Griffiths, D. A., 1977, *J. Parasitol.*, v. 63 (4), 761-762
Trichostrongylus colubriformis, kinetics of expulsion from previously uninfected, reinfected, and vaccinated guinea pigs compared

Immunization

Ruitenbergh, E. J.; and Steerenberg, P. A., 1976, *J. Parasitol.*, v. 62 (1), 164-166
Trichinella spiralis, rats, immunization with newborn larvae, challenge with newborn larvae, significant decrease in yield of muscle larvae in immunized challenged rats compared with challenged control rats

Immunization

Ruskin, J.; and Remington, J. S., 1971, *J. Reticuloendothel. Soc.*, v. 9 (5), 465-479
mice immunized with *Toxoplasma* vaccine and adjuvant are protected against challenge with *Listeria*

Immunization

Rybnikar, A., 1975, *Acta Vet. Brno*, v. 44 (4), 385-391
Dictyocaulus filaria, experimentally infected lambs used as donors for obtaining larvae for preparation of radiation vaccine; amount of larvae excreted dependent upon body mass and age of lambs, total dose of larvae and season of infestation

Immunization

Ryu, E., 1975, *Taiwan J. Vet. Med. and Animal Husb.* (27), 6-11
Trypanosoma evansi, mice, killed vaccines, various preparations, some protection

Immunization

Sadun, E. H.; et al., 1972, *Parassitologia*, v. 14 (1), 25-28
Trypanosoma congolense, irradiated forms immunizing mice, dogs and cattle; *T. rhodesiense*, irradiated forms immunizing mice and rats; irradiated human strain of *T. rhodesiense* immunizing *Macaca mulatta*

Immunization

Saul, K. W.; and Kreier, J. P., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 302-318
Plasmodium berghei-infected rats (exper.), immunization with antigens of a sonically freed preparation of erythrocytic parasites rich in merozoites, evaluation in rats of 3 age groups and of vaccine with and without adjuvants, freeze-thawed freed parasites did not lose antigenicity when stored up to 2 weeks

Immunization

Schenkel, R. H.; et al., 1975, *J. Parasitol.*, v. 61 (3), 549-550
Plasmodium knowlesi, rhesus monkeys, immunization with lyophilized antigen plus Adjuvant 65 and BCG afforded same protection as antigen plus Freund's Complete Adjuvant, results suggest important role for cell-mediated immunity in vaccine-induced protection against malaria

Immunization

Schnur, L. F., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (3), 371-373
Leishmania tropica, attempted vaccination of Syrian hamsters using live vaccine at low concentrations

Immunization

Schreuder, B. E. C.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (1), 26-34

Theileria parva, immunization of cattle using an infection and treatment method; attempted immunization against pathogenic *T. mutans* using an apathogenic strain

Immunization

Seah, S. K. K.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (1), 63-69

Trypanosoma cruzi, acute infection in exper. rhesus monkeys, vaccination with killed extract of cultural forms produced circulating antibodies and induced delayed hypersensitivity but monkeys still developed sustained parasitemia, changes in IgM and other hematologic responses

Immunization

Segura, E. L.; et al., 1976, J. Parasitol., v. 62 (1), 131-133

Trypanosoma cruzi, homogenate prepared by compression-decompression technique, protective activity of various subcellular fractions, flagellar fraction most active, effective immunization more closely related to schedule than to dose, mice

Immunization

Segura, E. L.; et al., 1977, J. Protozool., v. 24 (4), 540-543

Trypanosoma cruzi epimastigotes, method for isolation of membrane and flagellar fractions, description of ultrastructural characteristics and antigenic activity, protective activity against lethal challenge doses of trypomastigotes is strongly associated with the flagellar fraction

Immunization

Seitz, H. M., 1975, Tropenmed. und Parasitol., v. 26 (4), 417-425

Plasmodium berghei, strain K 173 in isogenic mouse strains (exper.), infection course, immunization by intermittent suppression of parasite multiplication by maintaining mice on milk diets of varying lengths, Fl-hybrids most resistant and immunization attempts most successful with this strain

Immunization

Sewell, M. M. H.; and Gallie, G. J., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 187-193

Taenia saginata, calves, vaccination

Immunization

Sheffield, H. G.; and Melton, M. L., 1976, Am. J. Trop. Med. and Hyg., v. 25 (3), 379-383

Toxoplasma gondii, intestinal development in cats, effect of combined pyrimethamine and sulfadiazine treatment, prolonged prepatent period, shortened patent period, inhibition of oocyst excretion, infection induced immunity to oocyst-producing reinfection in both control and treated cats

Immunization

Siddiqui, W. A., 1977, Science (4301), v. 197, 388-389

Plasmodium falciparum, successful immunization of *Aotus trivirgatus*

Immunization

Silverman, P. H., 1970, Immun. Parasitic Animals (Jackson, Herman and Singer), v. 2, 1165-1185
vaccination against parasites, progress and problems

Immunization

Smith, M. A.; and Clegg, J. A., 1976, Parasitology, v. 73 (1), 47-52

Schistosoma mansoni, *Mesocricetus auratus* of WO vs. LGN strains, wide difference in level of acquired immunity

Immunization

Smith, M. A.; Clegg, J. A.; and Webbe, G., 1976, Parasitology, v. 73 (1), 53-64

Schistosoma mansoni, *S. haematobium*, hamsters, substantial cross-immunity, detection of common surface antigens

Immunization

Smith, M. W., 1977, PANS, v. 23 (1), 27-32

Babesia bigemina, *Anaplasma marginale*, immunization of susceptible imported cattle using whole blood inoculations from infected donor cattle: Trinidad, imported from Canada

Immunization

Smith, W. D., 1977, Research Vet. Sc., v. 22 (1), 128-129

Haemonchus contortus, sheep immunized with larval antigens, stimulation of serum and mucus IgG antibody response, no IgA antibody response, no protection against challenge infection

Immunization

Smrkovski, L. L.; and Larson, C. L., 1977, Infect. and Immun., v. 16 (1), 249-257

Leishmania donovani, BALB/c mice, BCG immunization, prophylactic and therapeutic effect, influence of timing and of route of infection

Immunization

Sokolic, A.; et al., 1976, Brit. Vet. J., v. 132 (4), 416-422

chickens, single immunizing oral dose of irradiated oocysts of *Eimeria brunetti*, *E. necatrix*, *E. tenella* protects against severe simultaneous challenge with these three spp.

Immunization

Soltys, M. A., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (3), 309-322

immunization against protozoan diseases of animals, review

Immunization

Soulsby, E. J. L., 1977, Proc. Helminth. Soc. Washington, v. 44 (1), 28-43

role of host response in parasite control: host-parasite specificity; evasion of host response by parasites; utilization of host response by passive or active immunization, review

Immunization

Souza, M. do C.; et al., 1974, J. Protozool., v. 21 (4), 579-584

living culture forms of *Leptomonas pessoai* cross-protected mice against *Trypanosoma cruzi* challenge infection, circulating antibodies detected in immunized mice by immunodiffusion, passive haemagglutination, complement fixation, and antibody binding assay which cross-reacted with *T. cruzi* extracts, cellular immune response indicated by leucocyte migration inhibition

Immunization

Souza, M. do C. M.; and Roitman, I., 1971, Rev. Microbiol., S. Paulo, v. 2 (4), 187-189

Trypanosoma cruzi, high degree of protection in mice previously immunized with vaccine of *Leptomonas pessoai* (living suspension)

Immunization

Spitalny, G. L.; et al., 1977, Exper. Parasitol., v. 42 (1), 73-81

Plasmodium berghei, mice, effect of T cell deprivation on sporozoite immunization, eliminated or reduced capacity to develop protection, sporozoite-neutralizing activity, or circumsporozoite antibodies, capacity fully restored by giving thymocytes prior to immunization, data demonstrate T cell dependence of sporozoite-induced immunity

Immunization

Spitalny, G. L.; Rivera-Ortiz, C.-I.; and Nussenzweig, R. S., 1976, Exper. Parasitol., v. 40 (2), 179-188

Plasmodium berghei, mice, effect of splenectomy before and after immunization on development and manifestation of sporozoite-induced immunity, monitoring of protective immunity and production of antisporozoite antibodies (circumsporozoite precipitate and sporozoite neutralization activity), effect of passive transfer of hyperimmune sera

Immunization

Srivastava, P. S.; and Sharma, N. N., 1976, Pantnagar J. Research, v. 1 (1), 70-72

Theileria annulata, cross-bred calves, infectivity and immunogenicity of infected washed bovine erythrocytes, calves highly susceptible to tick challenge (infected *Hyalomma anatolicum*)

Immunization

Srivastava, P.S.; and Sharma, N.N., 1977, Vet. Parasitol., v. 3 (1), 23-31

Theileria annulata, calves, immunoprophylaxis using schizonts attenuated by cobalt-60 irradiation in bovine lymphocytes

Immunization

Srivastava, P. S.; and Sharma, N. N., 1977, Vet. Parasitol., v. 3 (2), 183-188

Theileria annulata in salivary gland suspensions of *Hyalomma anatolicum*, attenuation by cobalt-60 irradiation, further investigations needed to test suitability of technique for immunoprophylaxis

Immunization

Stadtsbaeder, S.; and Nguyen, B. T., 1977, Ann. Immunol., v. 128C (1-2), 149-150

Toxoplasma gondii, susceptibility of nude mice to infection was same as controls, vaccination of nude mice conferred incomplete immunity

Immunization

Stadtsbaeder, S.; Nguyen, B. T.; and Calvin-Preval, M. C., 1975, Ann. Immunol., v. 126C (4), 461-474

Toxoplasma gondii, mice, immunization with living parasites concomitant to cotrimoxazol treatment, phagocytosis/penetration and intracellular multiplication of *Toxoplasma* in normal or immune macrophages in the absence or presence of specific antibodies

Immunization

Stankiewicz, M., 1969, Acta Parasitol. Polon., v. 17 (1-19), 147-159

Strongyloides papillosus, sheep, repeated infections with sheep and rabbit strains, egg production, hematocrit, body weight; lower pathogenicity of rabbit-adapted strains, high immunity produced by both strains

Immunization

Stormont, C. J., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 81 [Abstract]

prognosis of neonatal isoerythrolysis based on blood types of cows and bulls taking into account specificity and titers of isoantibodies engendered in cows as result of vaccination with Anaplaz

Immunization

Stromberg, B. E.; and Soulsby, E. J. L., 1976, Vet. Parasitol., v. 2 (2), 197-208

Ascaris suum, guinea pigs, capacity of various worm developmental stages to induce protective immune response using various routes of inoculation, antibody titer as assessed by indirect hemagglutination was not correlated with degree of protection

Immunization

Stromberg, B. E.; and Soulsby, E. J. L., 1977, Vet. Parasitol., v. 3 (2), 169-175

Ascaris suum, guinea pigs, heterologous resistance induced by *Toxocara canis* and *Ancylostoma caninum* but not by *Haemonchus contortus*, *Caenorhabditis briggsae*, or *Turbatrix aceti*

Immunization

Stromberg, B. E.; and Soulsby, E. J. L., 1977, Internat. J. Parasitol., v. 7 (4), 287-291

Ascaris suum, guinea pigs, immunization with soluble antigens (extracts or excretory-secretory products of adult and larval stages)

Immunization

Styles, T. J., 1976, J. Protozool., v. 23 (2), 31A [Abstract]

Trypanosoma lewisi, rats, immunization by implantation of organisms into diffusion chambers in peritoneal cavity

Immunization

- Subramanian, G.; and Singh, K. S., 1973, *Isotopes and Radiation Parasitol.* III, 67-71
Ascaridia galli, one-week old chicks, attempted immunization with irradiated vs. normal eggs

Immunization

- Swietlikowski, M., 1969, *Acta Parasitol. Polon.*, v. 16 (1-19), 1968-1969, 101-115
Dictyocaulus viviparus, calves, immunization, normal or X-ray inactivated larvae, numbers of infective larvae, levels of complement fixing and precipitating antibodies, course of infection, precipitating antibodies appearing later than complement fixing antibodies and probably produced by mature parasites

Immunization

- Swietlikowski, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 89-94
Dictyocaulus viviparus, calves, immunization by subcutaneous injection of larvae; infective larvae produce immunity and antibodies in sera; uninfected larvae immunize but produce no antibodies

Immunization

- Swietlikowski, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 95-101
Dictyocaulus viviparus, calves infected orally by larvae refrigerated 3 or 8 months; young larvae produce more severe disease; both ages cause similar immunological response; implications for overwintering, epizootiology, and self-cure

Immunization

- Szarfman, A.; et al., 1977, *Tropenmed. u. Parasitol.*, v. 28 (3), 333-341
Trypanosoma cruzi-infected mice (exper.), effect of previous inoculation by epimastigotes of *Trypanosoma cruzi* upon the resistance of mice against challenge with trypomastigotes; survival rate and parasitemia dependent on previous number of epimastigotes inoculated and on number of trypomastigotes used for challenge; evidence suggests that cell-mediated anamnestic response may be triggered by reinfection

Immunization

- Taylor, M. G.; et al., 1976, *J. Helminth.*, v. 50 (1), 1-9
Schistosoma mattheei, sheep, vaccination using irradiated homologous cercariae or schistosomula or heterologous (*S. mansoni*) infection, results indicated effective immunization not dependent on presence of mature worm infection or on cercarial penetration of skin

Immunization

- Taylor, M. G.; et al., 1976, *J. Helminth.*, v. 50 (3), 215-221
baboons, attempts to immunize against *Schistosoma mansoni* using irradiated *S. mansoni* cercariae and schistosomula and non-irradiated *S. rodhaini* cercariae, no significant protection

Immunization

- Taylor, M. G.; et al., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 17-18 [Demonstration]
review of trial methods being used to develop live vaccine against schistosomiasis for human and veterinary use

Immunization

- Teixeira, A. R. L., 1977, *Advances Exper. Med. and Biol.*, v. 93, 243-280
Trypanosoma cruzi, immunoprophylaxis, review: life cycle in vector and host; clinical manifestations of Chagas' disease; mechanisms of resistance (natural and acquired immunity, humoral and cell-mediated); autoimmunity; antigenic structure; live vaccines; dead vaccines; perspectives for further studies

Immunization

- Tewari, H. C.; Dhar, D. N.; and Singh, K. S., 1973, *Isotopes and Radiation Parasitol.* III, 43-50
Dictyocaulus filaria, sheep, incidence, laboratory and field trials with gamma-irradiated vaccine, high degree of protection conferred, no correlation between antibody response and ability to withstand challenge: Kashmir, India

Immunization

- Tewari, H. C.; and Singh, K. S., 1977, *J. Parasitol.*, v. 63 (5), 945-946
Schistosoma incognitum, dogs, successful vaccination with irradiated cercariae

Immunization

- Todorovic, R., 1976, *Vet. Parasitol.*, v. 2 (1), 97-109
Babesia spp., cattle, review: serodiagnosis, immunization (sterile immunity; preinfection), chemoprophylaxis with imidocarb, vectors: Colombia

Immunization

- Todorovic, R. A.; and Gonzalez, E. F., 1975, *Rev. Inst. Colomb. Agropec.*, v. 10 (1), 87-99
Babesia bigemina, B. argentina, cattle, killed vaccine produced from infected erythrocytes and plasma, high degree of sterile immunity produced in calves: Colombia

Immunization

- Todorovic, R. A.; and Gonzalez, E. F., 1975, *Rev. Inst. Colomb. Agropec.*, v. 10 (2), 243-254
Babesia bigemina, B. argentina, Holstein-Friesian calves immunized with blood from carrier animals or from inoculated, splenectomized calves, challenge by *Babesia*-infected *Boophilus microplus*, weight gain records; better results with carrier blood

Immunization

- Todorovic, R. A.; Gonzalez, E. F.; and Adams, L. G., 1973, *Trop. Animal Health and Prod.*, v. 5 (4), 234-245
Babesia bigemina, B. argentina, calves, sterile immunity using killed-*Babesia* vaccine, field-borne challenge with *Boophilus microplus* infected ticks; possible important role in mechanism of acquired immunity

Immunization

Tomaneck, J., 1974, Acta Vet. Brno, v. 43 (1), 47-52

guinea-pigs orally infected with irradiated and non-irradiated *Dictyocaulus filaria* larvae, development of resulting larvae recovered from lungs; decreased larval counts with increased X-ray exposure, greater survival of female worms, implications for use in immunization

Immunization

Tomaneck, J.; and Franek, M., 1975, Acta Vet. Brno, v. 44 (4), 393-399

Dictyocaulus filaria, presence of complement-fixing antibodies in immunoglobulin fractions of sera from lambs during primary and secondary response to infection with non-irradiated and X-irradiated larvae

Immunization

Tr. Roy. Soc. Trop. Med. and Hyg., 1976, v. 70 (2), 114-129

African and South American trypanosomiasis, 16th seminar on current status (epidemiology, chemotherapy, immunological research and problems of immunization, infection in domestic animals, vector control)

Immunization

Tromba, F. G.; and Romanowski, R. D., 1976, J. Parasitol., v. 62 (2), 250-255

Stephanurus dentatus, swine, evaluation as vaccines of 9 somatic antigens derived from excretory gland cells

Immunization

Uilenberg, G.; et al., 1976, Tropenmed. u. Parasitol., v. 27 (3), 329-336

Theileria parva, cattle immunized by infection and treatment method using 3 strains of *T. parva* survived exposure to natural tick infestation; all controls died from *T. parva* infections, 3 immunized cattle died from *T. mutans* or *Babesia bigemina* infection but none from *T. parva*

Immunization

Varma, T. K.; and Rao, B. V., 1974, Indian Vet. J., v. 51 (1), 47-53

Taenia hydatigena, cystic and strobilar stages exposed to various doses of gamma irradiation, growth and development, preliminary immunization experiments, pups, lambs

Immunization

Wagland, B. M., 1975, Austral. J. Agric. Research, v. 26 (6), 1073-1080

Boophilus microplus, responses of previously unexposed *Bos taurus* and *Bos indicus* to four infestations with 20,000 tick larvae, concluded that resistance to *Boophilus microplus* in *Bos indicus* is an acquired not an innate phenomenon

Immunization

Wagner, G. G.; and Duffus, W. P. H., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 97-107

anti-lymphocyte antibody response in cattle inoculated with *Theileria parva*- or *T. lawrencei*-infected lymphoblastoid cell lines, apparently unrelated to specific antibody response to parasite itself, does not appear to either interfere with or enhance development of subsequent immunity to challenge

Immunization

Wakelin, D.; and Lloyd, M., 1976, Parasitology, v. 72 (2), 173-182

Trichinella spiralis, young and older NIH strain mice, dynamics of establishment and expulsion of primary and challenge infections, parameters of immunity must be established for each host strain

Immunization

Webbe, G.; et al., 1976, Ann. Trop. Med. and Parasitol., v. 70 (4), 411-424

Schistosoma haematobium in *Papio anubis*, development of acquired resistance following immunization with cercariae by percutaneous route and by transplantation of adult worms into mesenteric veins

Immunization

Webbe, G.; and James, C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 28-29 [Demonstration]; 151-152 [Letter]

Schistosoma haematobium in *Papio anubis* given trickle infection and then challenged, data provide unequivocal confirmation of development of acquired resistance

Immunization

Weiss, M. L., 1976, Exper. Parasitol., v. 40 (1), 103-111

Plasmodium berghei, mouse strain noninfective but highly immunogenic for Meriones unguiculatus was adapted to *M. unguiculatus* through serial passage of infected blood, antigenic changes during adaptation, loss of infectivity for mice, different antigens apparently responsible for immunogenicity vs. infectivity, vaccination led to production of some protective antibody but also to blocking and enhancing antibody

Immunization

Wellde, B. T.; et al., 1973, Isotopes and Radiation Parasitol. III, 187-192

Plasmodium berghei, mice, immunizing effect of irradiated parasitized RBC's, effects of various factors on development of resistance (splenectomy before and after immunization; lysis in French pressure cell or by freeze thawing of irradiated parasitized cells; increasing doses of radiation applied to parasitized cells; glutaraldehyde fixation of irradiated parasitized cells)

Immunization

Wells, R. A.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 472-479

Plasmodium yoelii, inbred model for protective immunization against malaria in BALB/c mice, irradiated blood forms of two lines of 17X strain used as immunogen, "most complete protection of mice against a lethal challenge with malaria parasite in the absence of previous active infection that has, to our knowledge, been thus far reported."

Immunization

Werner, H.; and Egger, I., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 174-180

Toxoplasma gondii, mice, latent or chronic infection protects against fatality from challenge with virulent strain, host may harbor cysts of all strains inoculated irrespective of whether homologous or heterologous strain was used for challenges

Immunization

Wikerhauser, T., 1972, *Acta Parasitol. Iugoslavica*, v. 3 (1), 41-45

bovine cysticercosis, attempted immunization of calves by intramuscular injection of artificially activated embryos of *Taenia saginata* or *T. hydatigena*, review

Immunization

Wikerhauser, T., 1975, *Vaccination of cattle against cysticercosis /C. bovis. Final research report.* 33 pp., illus.

Taenia saginata, calves, immunizing trials (homologous and heterologous vaccines, passive immunization with homologous antiserum), highest protection against oral challenge observed in calves receiving intramuscular injection of hatched non-attenuated homologous oncospheres; homologous antiserum proved ineffective; indirect fluorescent antibody test, especially micro-IFAT, useful for herd screening of bovine cysticercosis

Immunization

Wikerhauser, T.; et al., 1974, *Acta Parasitol. Iugoslavica*, v. 5 (2), 87-100

Taenia saginata, calves actively immunized with normal oncospheres or attenuated (irradiated) oncospheres; calves passively immunized with homologous antiserum; active immunization gave more protection against challenge infection; serological, biochemical and haematological studies

Immunization

Wikerhauser, T.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.*

(Vienna, Austria, Sept. 18-20, 1973), 195-197
Taenia saginata, calves, successful immunization by intramuscular injection of homologous living oncospheres, oncospheres subcutaneously and unhatched eggs by either route unsuccessful

Immunization

Williamson, J.; and Cover, B., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 78-87

Plasmodium falciparum, application of differential sucrose gradient centrifugation to separation and purification of human erythrocytic stages and gametocytes and of nitrogen cavitation for host-cell-free parasite preparation, gel diffusion analyses showed that highly purified infected cell preparations retained precipitinogenic spectrum of original crude preparation, possible use in vaccine preparation

Immunization

Wistar, R.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (4), 632-637

Schistosoma japonicum, rhesus monkeys, induction of anti-immunoglobulin (rheumatoid-factor-like) antibodies, role in immune response unclear, results suggest that immunization protocols designed for humans be carefully examined for potential immunopathological side effects of induced autoimmune responses

Immunization

Young, A. S.; et al., 1977, *Vet. Parasitol.*, v. 3 (4), 283-290

cattle immunized with *Theileria lawrencei* stabilates from *Rhipicephalus appendiculatus* either by fortuitous recovery or by chemoprophylaxis with oxytetracycline, survival without signs of clinical disease after prolonged natural challenge to *T. lawrencei* derived from *Syncerus caffer*

Immunization

Zahalsky, A. C.; and Weinberg, R. L., 1976, *J. Parasitol.*, v. 62 (1), 15-19

Trypanosoma brucei, inbred rats, humoral response to monomorphic strain during infection, during Berenil cure, after cure, and after rechallenge following drug-induced immunity; contribution of Berenil prophylaxis during refractory period, presence or absence of trypanosome-agglutinating antibodies, class of protective antibodies formed

Immunization

Zeledon, R.; and Alfaro, M., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 416-417

[Letter]

Leishmania braziliensis strain isolated from *Lutzomyia ylephiletor* and *L. shannoni* in Costa Rica, data suggest that injection of small numbers may produce abortive infection followed by solid immunity

Immunization

Ziegler, K., 1975, *Acta Vet. Brno*, v. 44 (1-2), 115-122

Capillaria obsignata, vaccination, chickens, X-irradiated embryonated eggs, safe, effective

Immunization

Zuckerman, A., 1977, *Exper. Parasitol.*, v. 42 (2), 374-446

Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunodiffusion. See Immunity, Precipitation.

Immunelectrophoresis. See Immunity, Precipitation.

Immunofluorescence

Abdalla, R. E., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, part 1), 1135-1138
human Sudan mucosal leishmaniasis, diagnosis comparing use of immunodiffusion, counter-immunelectrophoresis, and immunofluorescence

Immunofluorescence

Abioye, A. A., 1976, J. Trop. Med. and Hyg., v. 79 (11), 252-255
Entamoeba histolytica, drug (emetine, metronidazole) and immuno-diagnostic (fluorescent antibody, gel diffusion and latex agglutination tests) resistant amoebic hepatic abscess in man, case report, blood-abscess cavity barrier postulated as possible mechanism for diagnostic failure: Nigeria

Immunofluorescence

Abu Ali, N.; et al., 1976, Vet. Parasitol., v. 1 (4), 309-316
Eimeria tenella, chickens inoculated orally vs. subcutaneously, comparison of circulating antibody response using fluorescent antibody titration

Immunofluorescence

Adam, K. M. G.; et al., 1976, Parasitology, v. 73 (1), 1-11
antibody-positive blood from wild Cervus elaphus produced Babesia infections in splenectomized C. elaphus (also Eperythrozoon infection resembling wenyoni), possible transient deer Babesia infection produced in 1 of 6 bovine calves, indirect fluorescent antibody tests, "Despite their similarities, specific status for B. divergens and the red deer Babesia is probably justified; at present there is insufficient evidence to justify separation of the red deer Babesia from B. capreoli."

Immunofluorescence

Ambroise-Thomas, P., 1975, Maroc Med. (588), v. 55, 130-136
amoebiasis, schistosomiasis, echinococcosis, diagnosis, review

Immunofluorescence

Ambroise-Thomas, P., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (2), 107-112
human parasitic diseases, application of immunofluorescence to diagnosis, therapeutic follow-up of infection and sero-epidemiologic surveys

Immunofluorescence

Ambroise-Thomas, P.; et al., 1973, Nouv. Presse Med., v. 2 (33), 2200 [Letter]
human Entamoeba histolytica, hepatic abscess simulating echinococcal cyst, differential diagnosis and post-therapy evaluations using indirect fluorescent antibody technique

Immunofluorescence

Ambroise-Thomas, P.; et al., 1976, Bull. World Health Organ., v. 54 (4), 355-367
human malaria, extensive sero-epidemiologic survey (6 surveys at 6-month intervals using peripheral blood examination and fluorescent antibody technique) to evaluate past and present status of malarial infection in Tunisia

Immunofluorescence

Ambroise-Thomas, P.; and Andrews, P., 1976, Tropenmed. u. Parasitol., v. 27 (4), 483-488
Schistosoma mansoni, mice, development of fluorescent antibodies directed against larval stages, eggs, and adults, stronger serologic reaction in bisexual vs. unisexual infections, anti-male antibodies present in higher concentration than anti-female antibodies

Immunofluorescence

Ambroise-Thomas, P.; and Kien Truong, T., 1974, Ann. Trop. Med. and Parasitol., v. 68 (4), 435-452
filariasis, human, diagnosis, indirect fluorescent antibody test on sections of adult filariae (Dipetalonema viteae, Dirofilaria immitis, Wuchereria bancrofti, Loa loa, Onchocerca volvulus), possible application to epidemiological surveys and post-therapeutic surveillance

Immunofluorescence

Ambroise-Thomas, P.; and Meyer, H. A., 1975, Acta Trop., v. 32 (4), 359-364
Entamoeba histolytica, hepatic amoebiasis, human, diagnosis, agglutination and indirect fluorescent antibody tests, clinical trials with Tinidazole (Fasigyn), well tolerated with encouraging results but some cases required supplementary treatment with metronidazole: region of Kilimanjaro, northeast Tanzania

Immunofluorescence

Arnauodv, D.; et al., 1976, Vet. Med., Praha, v. 49, v. 21 (6), 375-384
Toxoplasma gondii, sheep, immunoepidemiological study by hemagglutination, indirect fluorescence, and microprecipitation reaction in agar gel; higher incidence in aborting ewes and in sheep in montane regions: Bulgaria; Czechoslovakia

Immunofluorescence

Aryeetey, M. E.; and Piekarski, G., 1976, Ztschr. Parasitenk., v. 50 (2), 109-124
indirect immunofluorescent test reliable in detecting Sarcocystis infection

Immunofluorescence

Asch, H. L.; and Dresden, M. H., 1977, J. Parasitol., v. 63 (1), 80-86
Schistosoma mansoni, effects of zinc on viability and morphology of cercariae and schistosomules, on cercarial staining in indirect immunofluorescence test, and on cercarial penetration of skin, findings suggest possible relationships of zinc to host resistance to and control of schistosomiasis

- Immunofluorescence**
Averbach, S.; et al., 1975, *Medicina*, Buenos Aires, v. 35 (5), 469-476
Toxoplasma gondii, human, diagnostic differentiation of acute vs. chronic infection, direct agglutination test with and without treatment of sera with 2-mercaptoethanol is convenient tool for detecting only specific IgM antibody response at early stage of infection, comparison with immunofluorescence
- Immunofluorescence**
Barry, D., 1975, *J. Protozool.*, v. 22 (3), 49A [Abstract]
Trypanosoma rhodesiense, "capping" of surface antigens, specific and temperature-dependent movement of variation antigens, capping in some cases is an artefact of the indirect fluorescent method
- Immunofluorescence**
Bartur, P.; and Lahav, M., 1973, *J. Protozool.*, v. 20 (4), 531
Toxoplasma gondii, human, routine testing by indirect fluorescent antibody method
- Immunofluorescence**
Bedrnik, P.; and Jurkovic, P., 1977, *J. Protozool.*, v. 24 (4), 48A-49A [Abstract]
Eimeria tenella, chickens, comparison of two different antigens for indirect immunofluorescent test
- Immunofluorescence**
Behforouz, N.; Rezai, H. R.; and Gettner, S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (3), 293-301
Leishmania spp., immunofluorescence used to detect antibodies in humans, mice and guinea pigs using heterologous and homologous antigens; immunoelectrophoretic identification of active fraction of guinea pig antibody
- Immunofluorescence**
Benex, J., 1972, *Medecine et Malad. Infect.*, v. 2 (10), 351-357
quantitative immunofluorescence in serologic diagnosis of human parasitoses, guidelines for use
- Immunofluorescence**
Benex, J., 1973, *Medecine et Malad. Infect.*, v. 3 (7), 301-304
Pneumocystis carinii, diagnosis of human infection using indirect fluorescent antibody technique
- Immunofluorescence**
Boonpucknavig, S.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (3), 410-415
Plasmodium berghei berghei, chronological development in tissue of infected mice described by means of immunofluorescent and histological study, change in morphological appearance of immunofluorescent-stained parasites from early to late stage of infection
- Immunofluorescence**
Boonpucknavig, S.; et al., 1976, *J. Nat. Research Council Thailand*, v. 8 (1), 51-66
Plasmodium berghei, mice, immune complex nephritis, clinical, histopathological and immunofluorescent studies
- Immunofluorescence**
Bordjoski, A.; et al., 1972, *Acta Parasitol. Jugoslavica*, v. 3 (2), 129-135
Sarcocystis tenella, improved method for preparation of antigen for indirect fluorescent antibody test
- Immunofluorescence**
Bordjoski, A.; and Conic, V., 1973, *Acta Parasitol. Jugoslavica*, v. 4 (2), 99-105
Sarcocystis tenella, preparation of antigens for complement fixation test and fluorescent antibody test, survey of humans, low number of low titre positive reactions not considered conclusive proof that sarcosporidiosis does not occur in humans
- Immunofluorescence**
Bos, H. J.; van der Kaay, H. J.; and van den Eijk, A. A., 1977, *Nederl. Tijdschr. Geneesk.*, v. 121 (7), 287-290
Entamoeba histolytica, evaluation and comparison of counterimmunoelectrophoresis, enzyme-linked immunosorbent assay and fluorescent antibody techniques for human diagnosis
- Immunofluorescence**
Bretana, A.; and O'Daly, J. A., 1976, *Internat. J. Parasitol.*, v. 6 (5), 379-386
Trypanosoma cruzi, uptake of proteins from fetal calf serum needed for growth, methods for labelling and subsequent localization (immunofluorescence; autoradiography; colloidal gold)
- Immunofluorescence**
Brown, P.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 775-783
Plasmodium, 4 human spp., remote island populations, fluorescent antibody prevalence patterns, comparison with published parasite survey data based on blood smears and medical examinations, evaluation of epidemiological usefulness: New Hebrides; Solomons; Western Carolines (malaria entirely absent); New Guinea
- Immunofluorescence**
Burrige, M. J.; and Kimber, C. D., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 186-191
Theileria spp. antigens tested against sera from cattle inoculated with wildebeest blood containing Theileria gorgonis or cattle recovered from infection with T. parva, T. lawrencei, or T. mutans, indirect fluorescent antibody test, results show antigenic distinctness of T. gorgonis with only slight degree of cross-reaction with other Theileria spp.
- Immunofluorescence**
Burrige, M. J.; and Kimber, C. D., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 305-308
Theileria parva, cattle, levels of antibodies in colostrum of dams recovered from exper. East Coast Fever and in the sera of their calves, indirect fluorescent antibody studies

Immunofluorescence

- Burridge, M. J.; Kimber, C. D.; and McHardy, N., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (2), 191-195
Babesia bigemina, value of dried blood samples as source of antibody for indirect fluorescent antibody test

Immunofluorescence

- Buys, J.; and Ruitenbergh, E. J., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 205 [Abstract]
Trypanosoma brucei, *T. rhodesiense*, comparative application of enzyme-linked immunosorbent assay (ELISA) and immunofluorescence for serodiagnosis of human trypanosomiasis; ELISA represents good alternate method particularly suited for mass screening purposes; cross-reaction only in one person in whom antibodies to *Leishmania* were detected

Immunofluorescence

- Calamel, M., 1977, *Rec. Med. Vet.*, v. 153 (5), 343-348
Dicrocoelium lanceolatum, lambs, indirect immunofluorescence diagnosis, 9 weeks earlier response for diagnosis than fecal examination

Immunofluorescence

- Callow, L. L.; Quiroga, Q. C.; and McCosker, P. J., 1976, *Internat. J. Parasitol.*, v. 6 (4), 307-310
Babesia argentina, *Anaplasma marginale*, comparison of strains of each from Australia vs. Bolivia with indirect fluorescent antibody test showed serological identity of the two strains of each parasite, implications for vaccination; since earlier study showed serological identity between *B. bovis* and *B. argentina*, the small *Babesia* of Australia and South America should by priority be called *B. bovis*

Immunofluorescence

- Chalupsky, J.; Vavra, J.; and Bedrnik, P., 1975, *J. Protozool.*, v. 22 (3), 60A-61A [Abstract]
Encephalitozoon cuniculi, laboratory animals, diagnosis with indirect fluorescent antibody test

Immunofluorescence

- Chantler, S.; et al., 1976, *J. Immunol. Methods*, v. 13 (3-4), 367-380
Toxoplasma gondii, human, sera examined by immunofluorescence for presence of specific IgM and IgG antibodies and for occurrence of anti-immunoglobulin activity both before and after absorption with freeze-dried preparations of protein A-containing *Staphylococcus aureus*

Immunofluorescence

- Chipperfield, E. J.; and Evans, B. A., 1972, *Clin. and Exper. Immunol.*, v. 11 (2), 219-223
Trichomonas vaginalis, influence of local infection on immunoglobulin formation in human endocervix observed using direct fluorescent antibody technique on specimens obtained by needle biopsy

Immunofluorescence

- Claus, G. E.; Christie, E.; and Dubey, J. P., 1977, *J. Parasitol.*, v. 63 (2), 266
Toxoplasma gondii, 1000 cats, prevalence of antibody, comparison of indirect fluorescent antibody method with dye test: humane society, Columbus, Ohio

Immunofluorescence

- Clinard, E. H., 1975, *Am. J. Vet. Research*, v. 36 (5), 615-618
Trichinella spiralis, swine (exper.), soluble-antigen fluorescent antibody test evaluated at intervals from 7 days to 1 year, possibly adequate as mass screening test for surveillance and control of trichinosis in swine

Immunofluorescence

- Collins, W. E.; Lunde, M. N.; and Skinner, J. C., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 412-416
 measurement of developing antibodies to *Plasmodium vivax* comparing results of indirect hemagglutination and indirect fluorescent antibody tests, effects of short-term infections on development and persistence of antibody response and effect of relapse on response

Immunofluorescence

- Costa, A. J.; et al., 1977, *J. Parasitol.*, v. 63 (2), 212-218
Toxoplasma gondii, exper. infection of Holstein calves with oocysts or cysts, clinical data, parasitemia, detection of antibody with Sabin-Feldman dye test and indirect immunofluorescent test

Immunofluorescence

- Cox, J. C.; et al., 1977, *Lab. Animal Sc.*, v. 27 (2), 204-209
 establishment of *Encephalitozoon cuniculi*-free rabbit colony, serological screening by immunofluorescence, isolation of seronegative rabbits, elimination of later positive ones

Immunofluorescence

- Cox, J. C.; and Gallichio, H. A., 1977, *Research Vet. Sc.*, v. 22 (1), 50-52
Nosema cuniculi, rabbits, serological diagnosis, indirect immunofluorescence test, compared with histopathological methods, no cross-reactivity between *N. cuniculi* and *Toxoplasma gondii*

Immunofluorescence

- Cox, J. C.; Walden, N. B.; and Nairn, R. C., 1972, *Research Vet. Sc.*, v. 13 (6), 595-597
Nosema cuniculi, rabbits (urine, kidneys), clinical aspects and mortality, presumptive diagnosis using immunofluorescence technique: laboratory colony

Immunofluorescence

- Crider, C. R.; and Meade, T. G., 1975, *Proc. Helminth. Soc. Washington*, v. 42 (1), 21-24
Posthodiplostomum minimum, antibody-antigen precipitin tests and immunofluorescence microscopy as useful methods for studies on origin of cyst wall, indicate both fish and parasite origin for total wall

Immunofluorescence

Daoc; et al., 1972, *Nouv. Presse Med.*, v. 1 (31), 2049-2050 [Letter]
diagnosis of human cysticercosis using indirect immunofluorescence and pieces of *Taenia solium*

Immunofluorescence

Deelder, A. M.; et al., 1977, *Exper. Parasitol.*, v. 41 (1), 133-140
Schistosoma mansoni, human, diagnosis, comparison of immunoperoxidase techniques DASS and ELISA, results at least as specific and sensitive as indirect fluorescent antibody technique and with considerable advantages

Immunofluorescence

Degremont, A.; and Weiss, N., 1975, *Praxis, Bern*, v. 64 (18), 553-555
human malarial, evaluation of immunofluorescence as adjunct to diagnostic serology

Immunofluorescence

Denev, I.; and Kolev, M., 1975, *Vet. Med. Nauki*, v. 12 (1), 97-100
Dictyocaulus filaria, lambs (exper.), diagnosis, immunofluorescence

Immunofluorescence

Dhar, S.; and Gautam, O. P., 1977, *Indian J. Animal Sc.*, v. 47 (11), 720-723
Theileria annulata, cattle (exper.), indirect fluorescent-antibody test, more reliable than blood smear examination for predicting latent *Theileria* infection

Immunofluorescence

Diesfeld, H. J.; Dutta, S. N.; and Braunschmünger, R., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 439-446
Wuchereria bancrofti-endemic area, survey of 225 Indians, microfilaremia, fluorescent antibody titer, clinical manifestations, eosinophilia, immunoglobulin levels: Dhanbad/Asansol, India

Immunofluorescence

Diesfeld, H. J.; and Kirsten, C., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (4), 435-438
filariasis, human, diagnosis, new embedding technique employing 'methacrylate' for preparation of antigen (*Dipetalonema viteae*) to be used in indirect fluorescent antibody test (tested on onchocerciasis sera from Togo), compared with usual frozen-section method

Immunofluorescence

Diesfeld, H. J.; and Kirsten, C., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 499-502
Dipetalonema viteae, localization of antigen-antibody reactions in male and female using immunofluorescence and serum from human filariasis patients; possible implications for diagnosis of human infection

Immunofluorescence

Diffley, P.; and Honigberg, B. M., 1977, *J. Parasitol.*, v. 63 (4), 599-606
Trypanosoma congolense, presence, host specificity, and time of accretion of rat plasma components on parasite surface, quantitative indirect fluorescent antibody analysis

Immunofluorescence

Dobson, C.; and Welch, J. S., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 223-228
survey for antibodies against *Dirofilaria immitis*, *Toxocara canis*, *Ascaris suum*, *Angiostrongylus cantonensis*, *A. mackerrasae*, in patients with eosinophilia using fluorescent antibody test and passive reversed Arthus test in guinea pigs; *D. immitis* implicated as etiologic agent of human eosinophilic meningitis: Australia

Immunofluorescence

Doby, J. M.; and Kombila-Favry, M., 1974, *Medecine et Malad. Infect.*, v. 4 (7), 397-401
human toxoplasmosis, immunofluorescence and agglutination and detection of immunoglobulin M, most reliable seroimmunologic tests for diagnosis

Immunofluorescence

Donnelly, J.; Joyner, L. P.; and Crossman, P. J., 1972, *Research Vet. Sc.*, v. 13 (6), 511-514
Babesia divergens, cattle, natural outbreak in dairy herd monitored by indirect immunofluorescent antibody test, quantitative estimate of incidence rate of infection, level of infection correlated with period at risk, high incidence, low morbidity, no evidence that amicarbalide protected prophylactically: Sussex

Immunofluorescence

Dooris, P. M.; and McGhee, R. B., 1976, *J. Protozool.*, v. 23 (3), 433-437
Crithidia hamosa, *C. fasciculata*, differentiation by immunological methods (agglutination, indirect fluorescent antibody) and by polyacrylamide gel slab electrophoresis (number and relative mobilities of component protein bands)

Immunofluorescence

Dranga, A.; et al., 1976, *Bacteriol., Virusol., Parazitol., Epidemiol.*, Bucuresti, v. 21 (4), 219-225
immunoepidemiologic survey of family members after birth of child with congenital toxoplasmosis

Immunofluorescence

Druilhe, P.; and Monjour, L., 1975, *Compt. Rend. Soc. Biol., Paris*, v. 169 (4), 1089-1095
human malaria, serodiagnosis, gel diffusion test using *Plasmodium falciparum* and *P. berghei* antigens prepared by different methods, compared with indirect immunofluorescence

Immunofluorescence

Dujšin, M.; and Pasini, J., 1972, *Medicinar, Zagreb*, v. 23 (1-2), 9-19
extensive clinical review of human *Toxoplasma gondii*, life cycle, transmission via infected meat, diagnosis, prophylaxis

Immunofluorescence

Dumas, M.; Girard, P. L.; and Gentilini, M., 1976, *Medecine Afrique Noire*, v. 23 (2), 89-93

human filariasis, invasion of central nervous system by microfilaria, diagnosis by immunofluorescence and finding of antibodies in spinal fluid

Immunofluorescence

Du Plessis, J. L.; and van Wyk, J. A., 1972, *Onderstepoort J. Vet. Research*, v. 39 (3), 179-180

Schistosoma mattheei, sheep (exper.), cattle (nat. and exper.), detection of antibodies by indirect immunofluorescence, no correlation between titre and worm burden, no cross reactions with other helminths, no false negative results; antigen-antibody complex localized in cercarial cuticle

Immunofluorescence

Durham, K. A.; Corstvet, R. E.; and Hair, J. A., 1976, *J. Parasitol.*, v. 62 (6), 1000-1002
fluorescent antibody technique suitable for identification of *Theileria cervi* in salivary glands or oral secretions of *Amblyomma americanum* (laboratory infected and field collected), high infection rates of field collected ticks indicate potentially a very efficient vector: eastern Oklahoma

Immunofluorescence

Durosoir, J. L.; Thabaut, A.; and Laverdant, C., 1974, *Medecine et Armees*, v. 2 (7), 627-628

human parasitic diseases, diagnosis, use of globulins labelled with peroxidase, comparison with immunofluorescence

Immunofluorescence

Dutta, S. N.; Diesfeld, H. J.; and Kirsten, C., 1976, *Tropenmed. u. Parasitol.*, v. 27 (4), 479-482

immunofluorescent antibody test using *D[ipetalonema] viteae* as antigen applied to mothers' blood and to the umbilical cord blood of their newborns, results show that in a *Wuchereria bancrofti* endemic area maternal antibodies against filariae are passed via placenta to newborn, findings not demonstrable after 6th month of life: India

Immunofluorescence

Dwyer, D. M., 1976, *J. Immunol.*, v. 117 (6), 2081-2091

Leishmania donovani, effects of specific antibodies on surface membrane antigens of amastigotes and promastigotes detected using direct and indirect immunofluorescence methods, capping process

Immunofluorescence

Dymowska, Z.; et al., 1974, *Med. Dosw. i Mikrobiol.*, v. 26 (3), 247-250

Toxoplasma gondii antibody levels determined by immunofluorescence in persons with *Isospora hominis* infection, no essential correlation found

Immunofluorescence

Dymowska, Z.; and Sporzynska, Z., 1973, *Med. Dosw. i Mikrobiol.*, v. 25 (4), 339-343

Toxoplasma gondii, human, evaluation of passive agglutination test for diagnosis, comparison with complement fixation and immunofluorescence

Immunofluorescence

Dymowska, Z.; and Urbanek-Szefnara, K., 1970, *Med. Dosw. i Mikrobiol.*, v. 22 (3), 283-292

Toxoplasma gondii, human, evaluation of fluorescent antibody test for diagnosis

Immunofluorescence

Edrissian, G. H.; and Afshar, A., 1973, *Pahlavi Med. J.*, v. 4 (4), 533-544

human malarias, detection of asymptomatic and scanty parasitemia using combined indirect fluorescent antibody technique and parasite concentration from thick and thin blood films, use in mass surveys: Iran

Immunofluorescence

Eugster, A. K.; and Joyce, J. R., 1976, *Vet. Med. and Small Animal Clin.*, v. 71 (10), 1469-1471, 1473

Toxoplasma gondii, horses, evaluation and standardization of indirect fluorescent antibody test, prevalence of positive reactions, diagnostic value: Texas

Immunofluorescence

zum Felde, I.; et al., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 477-484

Plasmodium falciparum, *P. vivax*, *P. ovale*, *P. malariae*, human, indirect immunofluorescence test with same 4 *Plasmodium* spp. plus *P. fieldi* as antigen, species-specific and cross-reactions, effect of therapy, implications for immunodiagnosis

Immunofluorescence

Felsenfeld, O.; and Wolf, R. H., 1973, *Ann. Trop. Med. and Parasitol.*, v. 67 (3), 335-340

cross-reactions and interference between *Trypanosoma brucei* and *Borrelia turicatae*, antigenic analysis, fluorescent antibody, and immobilisins studies, prolonged survival of mice simultaneously infected with both species

Immunofluorescence

Feteanu, A.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 101-111

Syngamus trachea, chicks, pheasants, immunization with irradiated larval antigen, fluorescent antibody technique for detection of serum antibodies

Immunofluorescence

Franco, M. F.; and Chamma, L. G., 1973, *Internat. Arch. Allergy and Applied Immunol.*, v. 44 (5), 692-696

schistosomiasis *mansoni*, Chagas disease, diagnosis, technical modification of indirect immunofluorescent antibody test using filter paper blood eluates, useful as rapid qualitative screening test when dealing with large number of samples

- Immunofluorescence**
 Gaertner, L.; et al., 1976, Arch. Exper. Vet.-Med., v. 30 (2), 227-238
Trichinella spiralis, rabbits, guinea pigs, problems with use of immunofluorescence for diagnosis
- Immunofluorescence**
 Gastaut, J. A.; Ranque, P.; and Quilici, M., 1972, Marseille Med., v. 109 (10), 627-629
 amoebiasis, human, diagnosis using immunofluorescence or agglutination, comparison trials
- Immunofluorescence**
 Gentilini, M.; et al., 1973, Medecine et Malad. Infect., v. 3 (1), 21-23
 detection and seroepidemiologic studies of human schistosomiasis using counter-immunoelectrophoresis, comparison with immunofluorescence and double diffusion in agar
- Immunofluorescence**
 Gentilini, M.; et al., 1976, Nouv. Presse. Med., v. 5 (11), 720 [Letter]
Trichinella spiralis in humans, value of indirect immunofluorescence in diagnosis during two recent epidemics in France
- Immunofluorescence**
 Giauffret, A.; Sanchis, R.; and Vitu, C., 1976, Rev. Med. Vet., Toulouse, v. 127 (6), 913-930
Leishmania, canine, diagnosis by immunofluorescence, prognosis, treatment with Glucantime, review
- Immunofluorescence**
 Goldring, O. L.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (2), 144-148
Schistosoma mansoni, detection of mouse host antigens and parasite antigens on surface of schistosome using indirect fluorescent antibody technique, suggests that presence of host antigens obviates binding of anti-schistosome antibody in sufficient quantity or in correct pattern to cause surface damage of schistosome
- Immunofluorescence**
 Golenser, J.; et al., 1977, Clin. and Exper. Immunol., v. 29 (1), 43-51
Plasmodium berghei, rats immunized with sporozoites or infected blood, indirect fluorescent antibody tests, crossreactivity using as antigen sporozoites, exoerythrocytic forms, or blood schizonts, protection or lack of protection against challenge with sporozoites or infected blood
- Immunofluorescence**
 Golenser, J.; et al., 1977, Trop. and Geogr. Med., v. 29 (3), 318 [Abstract]
 P[lasmodium] *berghei*, detection of antibodies against sporozoites, parasitized erythrocytes and exoerythrocytic forms using the indirect fluorescent antibody test
- Immunofluorescence**
 Gonzaga dos Santos, L.; Santos, E. S.; and Azevedo, R., 1976, Ann. Trop. Med. and Parasitol., v. 70 (2), 219-225
Wuchereria bancrofti, human, diagnosis, immunofluorescence using microfilariae treated with papain as antigen
- Immunofluorescence**
 Grelck, H.; and Hoerchner, F., 1977, Berl. u. Munchen. Tierarztl. Wchnschr., v. 90 (17), 332-335
Fasciola hepatica, cattle, comparative diagnosis using immunofluorescence and immunoperoxidase test
- Immunofluorescence**
 Gupta, S. L.; Gautam, O. P.; and Chauhan, H. V. S., 1976, Haryana Agric. Univ. J. Research, v. 6 (1), 87-88
Anaplasma ovis, sheep, diagnosis, fluorescent antibody technique, specificity tested, detects low grade infections
- Immunofluorescence**
 Gustowska, L.; Gabryel, P.; and Zeromski, J., 1970, Patol. Polska, v. 21 (4), 663-669
 human *Trichinella spiralis*, high specificity of immunofluorescence test demonstrated in diagnostic comparisons with muscle biopsy, biopsy recommended after obtaining positive results with immunofluorescence in order to assess degree of muscle invasion and damage
- Immunofluorescence**
 Gysin, J.; Le Corroller, Y.; and Pariaud, P., 1975, Medecine et Malad. Infect., v. 5 (12), 560-563
Schistosoma mansoni, comparison of enzyme-labelling and immunofluorescence in sero-immunologic diagnosis of human infections
- Immunofluorescence**
 Halliwell, R. E. W., 1973, J. Immunol., v. 110 (2), 422-430
 canine skin, immunofluorescent staining for IgE and *Ascaris*-binding antibodies, association with mast cells, correlation with results of intradermal skin tests
- Immunofluorescence**
 Hamburger, J.; and Kreier, J. P., 1976, Exper. Parasitol., v. 40 (2), 158-169
Plasmodium berghei free parasites (but not parasites in erythrocytes) become coated with antibodies after incubation in recovered rat serum (as demonstrated by fluorescent antibody technique), this immune serum did not protect mice against inoculation of free parasites but did protect rats partially or completely, phagocytes ingested parasites more readily in presence of immune vs. normal serum
- Immunofluorescence**
 Hanna, R. E. B.; and Jura, W., 1977, Research Vet. Sc., v. 22 (3), 339-342
Fasciola gigantica, calves (exper.), antibody response, indirect fluorescent antibody technique, results suggest that the surface glycocalyx of newly excysted flukes provides one of the earliest antigenic stimuli for host response

Immunofluorescence

Hanson, W. L.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 117-131

Trypanosoma cruzi, detection of small numbers of viable or virulent parasites in blood and other fluids by Vero cell culture procedure or by mouse inoculation, immunization of mice with irradiated trypomastigotes and amastigotes, serology as determined by indirect fluorescent antibody and agglutination tests

Immunofluorescence

Hawa, N.; Latif, B. M. A.; and Bakir, F. A., 1976, Trop. Animal Health and Prod., v. 8 (2), 97-101

Theileria hirci, sheep (nat. and exper.), diagnosis, indirect fluorescent antibody test, serological response of host to cell culture schizont antigen

Immunofluorescence

Healey, M. C.; and Gaafar, S. M., 1977, Vet. Parasitol., v. 3 (2), 107-119

Demodex canis, dogs, immunofluorescent demonstration and quantitation of mast cell-bound IgE, estimation of serum IgE inconclusive, possible role of atopic sensitization in pathogenesis of canine demodectic mange

Immunofluorescence

Hedge, E. C.; and Ridley, D. S., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 304-307

evaluation of microfilarial antigen for use with indirect immunofluorescent test in diagnosing human filariasis; best results obtained with sonicated microfilariae of *Brugia pahangi* with which both cytoplasmic and sheath antigens could be utilized simultaneously

Immunofluorescence

van Helden, H. P. T.; et al., 1976, Trop. and Geogr. Med., v. 28 (4), 364 [Abstract]

Schistosoma mansoni, *S. haematobium*, focal and diffuse fluorescence patterns, variations with host age observed during serologic prevalence survey

Immunofluorescence

Herd, R. P., 1976, Parasitology, v. 72 (3), 325-334

Echinococcus granulosus protoscoleces and adults, effects of complement and/or specific antibodies in vitro

Immunofluorescence

Hidalgo, R. J., 1975, Am. J. Vet. Research, v. 36 (5), 635-640

Anaplasma marginale, propagation in bovine lymph node cell culture, direct fluorescent antibody technique used for detection of organism in culture and combined with standard microscopic count procedure to obtain numerical estimates of organism as criteria of growth, effect of oxytetracycline HCl

Immunofluorescence

Hobbs, K. M.; Sole, E.; and Bettelheim, K. A., 1977, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 239 (3), 409-413

Toxoplasma gondii, humans, IgM is immunoglobulin class responsible for bipolar staining of trophozoites in fluorescent antibody test

Immunofluorescence

Hoerchner, F.; Grelck, H.; and Flasshoff, F. G., 1976, Berl. u. Munchen. Tierarztl. Wchnschr., v. 89 (15), 296-300

Fasciola hepatica, cattle, diagnosis, comparison of one-time fecal examination and various serological tests, confirmation by post-mortem liver and bile examination; indirect immunofluorescence test better than agar gel precipitation, latex agglutination or fecal examination; duration of egg-shedding after treatment with Dirian

Immunofluorescence

Hoffmann, E. O.; and Miller, M. J., 1975, J. Parasitol., v. 61 (6), 1104-1105

Entamoeba histolytica, value of fluorescent antibody technique in visualizing trophozoites in tissues routinely processed through formalin fixation and paraffin embedding

Immunofluorescence

Honigberg, B. M.; et al., 1975, J. Protozool., v. 22 (3), 23A [Abstract]

Trypanosoma brucei, bloodstream, culture, midgut, and proventricular forms, antigenic analysis by quantitative fluorescent antibody method

Immunofluorescence

Honigberg, B. M.; et al., 1975, J. Protozool., v. 22 (3), 23A-24A [Abstract]

Trypanosoma brucei, bloodstream and salivary gland forms, antigenic analysis by quantitative fluorescent antibody method

Immunofluorescence

Honigberg, B. M.; et al., 1976, Exper. Parasitol., v. 39 (3), 496-522

Trypanosoma brucei brucei, comparative antigenic analysis of different developmental stages (bloodstream, vector, and culture forms) by quantitative fluorescent antibody methods

Immunofluorescence

Huebsch, R. M.; Sulzer, A. J.; and Kagan, I. G., 1976, J. Parasitol., v. 62 (4), 523-527

evaluation of sensitivity and specificity of indirect immunofluorescence test for auto-immune-type EVI antibodies in sera of patients with Chagas disease (*Trypanosoma cruzi*), leishmaniasis (*Leishmania brasiliensis*, *L. donovani*), malaria, and several other non-parasitic diseases; second type of staining of heart tissue also reported for patients with leishmaniasis and malaria but not Chagas' disease

Immunofluorescence

Jackson, T.F.H.G., 1976, *J. Helminth.*, v. 50 (1), 45-47

Bulinus (*Physopsis*) *africanus* antigens shown to be associated with cercarial glyco-calyx of *Schistosoma haematobium* using immunofluorescence and Cercarienhuellen reaktion, possibility that snail antigen might sensitise definitive host and induce resistance to further invasion by cercariae

Immunofluorescence

James, E. R., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (4), 433 [Demonstration]

Trichinella spiralis, miniaturization of technique for diagnosis using standard indirect fluorescent antibody test

Immunofluorescence

Jeffery, G. M.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 402-411

application of indirect fluorescent antibody test findings to assessment of endemicity of *Plasmodium falciparum* and *P. vivax* in malarial surveillance areas, climate, geography and area development as additional varying factors: Mato Grosso State, Brazil

Immunofluorescence

Jeon, Y.; Kim, D. S.; and Jeong, S. J., 1975, *Research Rep. Office Rural Develop.*, Min. Agric. and Forest., Korea, v. 17, 45-49

Babesia, cattle, experimental infection for immunization, recovery with persistence of antibodies as shown by indirect fluorescent antibody test

Immunofluorescence

Jeon, Y.; and Lee, T. J., 1975, *Research Rep. Office Rural Develop.*, Min. Agric. and Forest., Korea, v. 17, 35-43

Babesia, cattle, experimental infection with Korean strain, detection of antibodies with indirect fluorescent antibody test, chronology of presence of antibodies

Immunofluorescence

Johnston, L. A. Y.; Trueman, K. F.; and Pearson, R. D., 1977, *Austral. Vet. J.*, v. 53 (5), 222-226

Babesia argentina, *B. bigemina*, cattle (nat. and exper.), comparison of Giemsa and direct fluorescent antibody staining for diagnosis, determination of length of time *Babesia* may be recognized in tissues after host death; field cases of *B. argentina* were due to primary infections rather than relapses

Immunofluorescence

Joyner, L. P.; et al., 1972, *Research Vet. Sc.*, v. 13 (6), 515-518

species-specificity of indirect fluorescent antibody test for differentiating infections with *Babesia divergens* vs. *Babesia major*, cattle (nat. and exper.), suitable for use in surveys

Immunofluorescence

Kaeser, H. E.; Dietrich, R.; and Kocher, R., 1977, *Schweiz. Med. Wchnschr.*, v. 107 (42), 1482-1487

Toxoplasma gondii involving the human nervous system, diagnosis by indirect immunofluorescence or morphologic identification of organism in spinal fluid, clinical case reports, recommendations for therapy with fansidar combined with spiramycin

Immunofluorescence

Kagan, I. G.; and Norman, L. G., 1976, *National Cancer Inst. Monograph* (43), 121-125

Pneumocystis carinii pneumonia in humans, evaluation of serologic tests with comparison of results of immunodiffusion, immunofluorescence, complement fixation and double diffusion tests, lower level of measurable antibody in American sera in comparison to that from European laboratories

Immunofluorescence

Kaul, T. N.; and Mahajan, R. C., 1977, *Indian J. Med. Research*, v. 66 (3), 413-416

human hookworm infection, immunofluorescence using *Ancylostoma duodenale* antigen, useful immunodiagnostic tool especially in early stages of infections

Immunofluorescence

Kettis, A. A.; Lidman, K.; and Fagraeus, A., 1977, *J. Parasitol.*, v. 63 (3), 581-583

Entamoeba histolytica, presence of actin in trophozoites demonstrated by immunofluorescence using human sera with anti-actin specificity

Immunofluorescence

Kimber, C. D.; Purnell, R. E.; and Sellwood, S. A., 1973, *Research Vet. Sc.*, v. 14 (1), 126-127

Theileria parva, detection in salivary glands of *Rhipicephalus appendiculatus* using fluorescent antibody techniques

Immunofluorescence

Kimber, C. D.; and Young, A. S., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (1), 1-10

Theileria mutans (Aitong), cattle infected by cyclical and mechanical transmission, response to infection studied using indirect fluorescent antibody technique with piroplasm and schizont antigens, indistinguishable reactions with different strains of *T. mutans* but easily distinguishable reactions from other *Theileria* spp.

Immunofluorescence

Kiurtov, N., 1976, *Vet. Med. Nauki*, v. 13 (7), 61-66

Babesia ovis, sheep, direct and indirect immunofluorescence compared with complement fixation; indirect method more readily applicable in diagnostic laboratory, direct method more species specific

Immunofluorescence

Klimowicz, J.; Gancarz, Z.; and Wyrzykowski, J., 1975, *Przegl. Lek.*, v. 32 (12), 876-878

human trichinosis, use of immunofluorescence and passive hemagglutination tests for diagnosis and for epidemiologic surveys

Immunofluorescence

Kloetzel, J.; Camargo, M. E.; and Giovannini, V. L., 1975, *J. Protozool.*, v. 22 (2), 259-261
Trypanosoma cruzi trypomastigotes vs. amastigotes vs. epimastigotes, antigenic differences demonstrated by indirect fluorescent antibody test

Immunofluorescence

van Knapen, F.; Framstad, K.; and Ruitenbergh, E. J., 1976, *J. Parasitol.*, v. 62 (2), 332-333
Trichinella spiralis, reliability of enzyme-linked immunosorbent assay as control method for detection of infections in naturally infected slaughter pigs, compared with direct methods of diagnosis (trichinoscopy; digestion method) and other serological tests (immunofluorescence; counter-electrophoresis; Ouchterlony agar gel diffusion)

Immunofluorescence

Kobayashi, A.; Soltys, M. A.; and Woo, P.T.K., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (1), 53-58

Trypanosoma congolense, sheep, diagnosis, comparison of various parasitological techniques (wet mount preparation; hematocrit centrifuge technique; mouse inoculation test) with various serological techniques (immuno-lysis test; indirect fluorescent antibody test; complement fixation test; immunoconglutination test), effect of treatment with quinapyramine dimethosulphate on diagnosis

Immunofluorescence

Kouwenhoven, B.; and Kuil, H., 1976, *Vet. Parasitol.*, v. 2 (3), 283-292

Eimeria tenella, chickens, rabbits, demonstration of circulating antibodies by indirect immunofluorescent antibody test using sporozoites and second-stage schizonts as antigen

Immunofluorescence

Kraft, B.; Kraft, I.; and Stoll, L., 1976, *Arch. Lebensmittel-Hyg.*, v. 27 (5), 172-176

Toxoplasma gondii, slaughter-pigs, comparison of diagnostic methods, fluorescence examination of lymph node smears proved better method than macroscopic or histological examination of lymph nodes or Sabin-Feldman dye test

Immunofluorescence

Kramar, J.; and Cerva, L., 1975, *J. Protozool.*, v. 22 (3), 65A

Naegleria, differentiation of pathogenic from nonpathogenic strains by indirect fluorescent antibody test

Immunofluorescence

Kuil, H.; et al., 1977, *Vet. Parasitol.*, v. 3 (1), 33-40

Eimeria maxima, *Eimeria acervulina*, chickens, effect of inoculation dose on indirect fluorescent antibody response, difference in immunogenicity between two species substantiated by difference in IFA response after challenge, reinoculation with *Eimeria maxima* indicated that birds were immune but single infection with *Eimeria acervulina* did not result in solid immunity

Immunofluorescence

Kuil, H.; and Dankert-Brands, S., 1976, *Vet. Parasitol.*, v. 2 (3), 293-298

Eimeria tenella, *E. maxima*, development of indirect fluorescent antibody titers in infected chickens fed rations medicated with metichlorpindol and/or methylbenzoquate, concluded that development of parasite is necessary to stimulate host to produce circulating fluorescent antibodies

Immunofluorescence

Kuttler, K. L.; Adams, L. G.; and Todorovic, R. A., 1977, *Am. J. Vet. Research*, v. 38 (2), 153-156

Babesia bigemina, infected mature cattle, comparison of complement fixation and indirect fluorescent antibody reactions, CF more sensitive than IFA in longer infection, both successful in early infections

Immunofluorescence

Lanotte, G.; et al., 1975, *Ann. Parasitol.*, v. 50 (1), 1-5

leishmaniasis, canine, epidemiological survey, application of immunofluorescence technique, geometric and arithmetic mean titres as indication of incidence and prevalence, close correlation with diagnosis by parasitological techniques: south of France

Immunofluorescence

Lawrence, J. A., 1977, *Vet. Rec.*, v. 100 (22), 470-471

Theileria parva (Muguga) and *T. lawrencei* from Rhodesia serologically indistinguishable, indirect immunofluorescent test

Immunofluorescence

Lawrence, J. A., 1977, *Research Vet. Sc.*, v. 23 (3), 288-292

Schistosoma mattheei, Friesian steers (exper.), antibody response followed up to 76 weeks by complement fixation, indirect haemagglutination, and indirect immunofluorescent tests, strong cross-reaction to *Fasciola gigantica* and *Paramphistomum microbotrium* in CF test, while IH and IF tests were specific; IF test of proven value in diagnosis of clinical schistosomiasis

Immunofluorescence

Leefflang, P.; et al., 1976, *Internat. J. Parasitol.*, v. 6 (2), 159-161

survey of 173 males using indirect fluorescent antibody technique with *Babesia bovis*, *B. bigemina*, and *B. ratti* as antigens, babesial antibodies detected in 54%, no correlation found with mode of living, contact with livestock, incidence of malaria parasitaemias or malarial antibodies, no *Babesia* organisms found in blood smears or by animal subinoculation, source of antibodies unknown but subclinical infection not likely: Nigeria

Immunofluorescence

Lemasson, J. M.; and Dindinaud, M. H., 1974, *Ouest Med.*, v. 27 (15), 1425-1430

human toxoplasmosis, diagnosis comparing direct agglutination and indirect immunofluorescence

- Immunofluorescence**
 Le Viguelloux, J.; et al., 1971, *Medecine Trop.*, v. 31 (4), 393-398
 diagnosis of *Schistosoma mansoni* in humans using lyophilized adult worm antigen, technique and value of test reactions
- Immunofluorescence**
 Le Viguelloux, J.; et al., 1971, *Medecine Trop.*, v. 31 (4), 399-403
 variations in immunologic findings of indirect immunofluorescent antibody test in human *Schistosoma mansoni*, no correlation between eggs excreted in urine and antibody titers
- Immunofluorescence**
 Lloyd, S.; and Soulsby, E. J. L., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 231-240
Taenia taeniaeformis, mice, maternal transfer of antibody, placental and transmammary transfer of immunity, passive transfer of immunity by serum or intestinal or colostral immunoglobulins, indirect haemagglutination and enhanced haemagglutination, immunoglobulin classes involved, antibody on intestinal wall of neonatal mice revealed by indirect fluorescent antibody technique, possible model system for *T. saginata* in calves
- Immunofluorescence**
 Locatelli, A.; and Simonic, T., 1974, *Folia Vet. Latina*, v. 4 (1), 43-70
Fasciola hepatica, short review of physiology, biochemistry, pathogenicity, immunology, and diagnosis (fecal examination, complement fixation, precipitation, haemagglutination, flocculation, and allergy tests, indirect immunofluorescence)
- Immunofluorescence**
 Loehr, K. F.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (2), 192-197
Anaplasma organisms isolated in splenectomized calves following blood inoculation from *Connochaetes taurinus*, *Alcelaphus buselaphus cokii*, and *Gazella thomsonii*, morphologically indistinguishable from *Aepyceros melampus*, mild reaction of receptor calves to antelope-derived infection and severe reaction to subsequent *A. melampus* challenge, indirect fluorescent antibody results established close antigenic relationship between antelope anaplasmas and *A. melampus* and less so to *Anaplasma centrale*: Kenya
- Immunofluorescence**
 Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 86-95
Anaplasma marginale, *A. centrale*, cattle, homologous and heterologous indirect fluorescent antibody and capillary tube agglutination responses to primary infection and reinfection and to cross-infection with the heterologous organisms, clinical reactions; *A. centrale* carrier animals showed high degree of premunity to severe challenge with *A. marginale*
- Immunofluorescence**
 Loehr, K. F.; Ross, J. P. J.; and Meyer, H., 1974, *Tropenmed. u. Parasitol.*, v. 25 (2), 217-226
 sera of 1505 game animals of 19 different species screened for antibodies to *Anaplasma marginale*, *Babesia bigemina*, and *Theileria parva*, capillary tube agglutination and indirect fluorescent antibody tests, antibodies more prevalent in sera of antelopes grazing in vicinity of non-dipped cattle than in areas where cattle are either dipped regularly or are not present at all, need for studies on transmission of these organisms from game to cattle and vice versa: Kenya; Tanzania; Uganda; Zambia
- Immunofluorescence**
 Lopez-Antunano, F. J., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (3), 257 [Letter]
Plasmodium falciparum antigen slides made from in vitro culture for use in indirect immunofluorescence test
- Immunofluorescence**
 Machnicka, B., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 213-221
Taenia saginata, humans, *Cysticercus bovis*, calves, antibody response, cross-reactions indicating antigenic relationship between adult and larval form, passive hemagglutination, indirect immunofluorescence, gel precipitation, immunoelectrophoresis
- Immunofluorescence**
 Mahajan, R. C.; et al., 1977, *Indian J. Med. Research*, v. 66 (1), 29-32
Toxoplasma gondii in humans, evaluation of indirect fluorescent antibody test and indirect hemagglutination test for detection of *Toxoplasma* antibodies in suspected infections
- Immunofluorescence**
 Mahajan, R. C.; Ganguly, N. K.; and Chitkara, N. L., 1976, *Indian J. Med. Research*, v. 64 (3), 405-409
 comparative evaluation of immunodiagnostic techniques for human echinococcosis (fluorescent antibody test, indirect hemagglutination, intradermal Casoni test)
- Immunofluorescence**
 Mahmoud, A. A. F.; and Warren, K. S., 1977, *J. Infect. Dis.*, v. 135 (3), 493-496
Toxoplasma gondii in humans, algorithms in diagnosis and clinical management
- Immunofluorescence**
 Manikowska-Lesinska, W.; and Linda, B., 1973, *Polski Tygod. Lekar.*, v. 28 (9), 313-314
Toxoplasma gondii, humans, evaluations of modified immunofluorescence test for simultaneous epidemiologic surveys of toxoplasmosis and syphilis: Poland
- Immunofluorescence**
 Mannweiler, E.; et al., 1976, *Munchen. Med. Wchnschr.*, v. 118 (36), 1139-1144
Plasmodium spp., homologous and heterologous malaria pathogens used as antigens to determine malaria antibodies by direct immunofluorescence, pre- and post-treatment with chloroquine compared

Immunofluorescence

Mannweiler, E.; Thoele, A.; and Lederer, I., 1977, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 238 (4), 494-502
 echinococcosis, human, immunodiagnosis using aqueous extract from *Echinococcus multilocularis* cyst material, and protoscolices from *E. granulosus* and *E. multilocularis*, results showed indirect immunofluorescence test with vital protoscolices the most specific whereas indirect hemagglutination test with hydatid fluid and extract from *E. multilocularis* the most sensitive, latex test the least specific method

Immunofluorescence

Martaresche, B.; et al., 1975, Medecine Trop., v. 35 (4), 309-310
 human *Plasmodium falciparum*, positive immunofluorescence test for leishmaniasis

Immunofluorescence

Matossian, R. M.; Kurban, A. K.; and Malak, J. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 450-452
Leishmania tropica, humans, circulating antibodies, detection by immunofluorescence, cross reactivity with *L. donovani* and *Trypanosoma cruzi* antigens, possible cross reactivity in mixed tuberculosis infections

Immunofluorescence

Matossian, R. M.; Nassar, V. H.; and Basmadji, A., 1977, J. Clin. Path., v. 30 (9), 847-850
Toxoplasma gondii, humans, differential diagnosis of toxoplasmic lymphadenitis by direct immunofluorescence, demonstration of cysts and trophozoites in lymph node biopsy

Immunofluorescence

Matossian, R. M.; Rebeiz, J.; and Stephan, E., 1975, Ann. Trop. Med. and Parasitol., v. 69 (3), 387-392
Trichinella spiralis, human, early diagnosis of acute trichinosis can be made by indirect fluorescent antibody test using freeze-dried larval antigen, human serum, and anti-human IgG, IgM, and IgA fluorescein conjugates

Immunofluorescence

Matossian-Rogers, A.; Lumsden, W. H. R.; and Dumonde, D. C., 1976, Immunology, v. 31 (1), 1-19
Leishmania enriettii, *L. tropica major*, *L. aethiopica*, *L. mexicana amazonensis*, numerical immunotaxonomy, differentiation according to reactivity and cross-reactivity in tests of parasite agglutination, indirect immunofluorescence, and passive cutaneous anaphylaxis

Immunofluorescence

Mehlitz, D., 1975, Tropenmed. u. Parasitol., v. 26 (3), 265-275
Trypanosoma spp. of *Nannomonas*, *Duttonella*, and *Trypanozoon* subgenera, comparison of indirect fluorescent antibody test and complement fixation test as means of differentiating subgenera by serology and persistence of antibodies

Immunofluorescence

de Meuter, F.; and de Decker, H., 1975, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 233 (3), 421-430
 toxoplasmosis, human, indirect fluorescent antibody test, use of fluorescent anti-IgG conjugate to prevent unspecific reactions, use in pregnancy; Remington test for early diagnosis of congenital toxoplasmosis

Immunofluorescence

Meuwissen, J. H. E. T., 1976, National Cancer Inst. Monograph (43), 133-136
Pneumocystis carinii pneumonia in humans, attempts to apply indirect fluorescent antibody tests and complement fixation to the laboratory diagnosis of infection and to epidemiologic surveillance in outbreaks, preliminary data on experimental use of rat colony for longitudinal studies

Immunofluorescence

Meuwissen, J. H. E. T.; et al., 1977, J. Infect. Dis., v. 136 (1), 43-49
Pneumocystis carinii in humans, although IgG antibody levels are higher in leukemic children with symptoms of *Pneumocystis pneumonia* than in those without symptoms or in normal controls, serologic assessment with indirect fluorescent antibody test appears to be of limited diagnostic value

Immunofluorescence

Meuwissen, J. H. E. T.; et al., 1977, Trop. and Geogr. Med., v. 29 (3), 318 [Abstract]
Pneumocystis, comparisons of IgG antibody levels of infected children with those of normal controls using the indirect fluorescent antibody test suggest the test has limited diagnostic value but could be useful in serologic follow-up

Immunofluorescence

Mohn, S. F.; and Ødegaard, O. A., 1977, Acta Vet. Scand., v. 18 (2), 290-292
Nosema cuniculi, blue fox (*Alopex lagopus*), diagnosis by indirect fluorescent antibody test

Immunofluorescence

Mohr, W., 1976, Med. Klin., Berlin, v. 71, 1204-1209
 human protozoal infections, value of immunoserologic techniques in diagnosis, comparison with results of direct blood examination and culture methods

Immunofluorescence

Moreau, J. P.; et al., 1975, Medecine Trop., v. 35 (5), 402-406
 probable *Fasciola gigantica* infection in Malagasy woman, highly positive sero-immunologic tests although previous parasitologic tests had been negative, case report: Madagascar

Immunofluorescence

- Moriearty, P. L.; and Brito, E., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 717-722
Schistosoma mansoni, elution of antischistosome antibodies from kidney tissue obtained from schistosomiasis and control cases, IgG eluted from infected cases showed specific activity against schistosome antigen while those from controls showed no fluorescence

Immunofluorescence

- Morzaria, S. P.; et al., 1977, *Research Vet. Sc.*, v. 22 (3), 330-333
Theileria mutans, comparison of British strain with East and South African strains and other *Theileria* spp. using indirect fluorescent antibody test, no cross-reactions were detected, concluded that British strain of *T. mutans* could be a distinct species from African strains of *T. mutans*

Immunofluorescence

- Morzaria, S. P.; Brocklesby, D. W.; and Haradine, D. L., 1977, *Vet. Rec.*, v. 100 (23), 484-487
Babesia major, *Theileria mutans*, cattle (exper.), indirect fluorescent antibody test found to be species specific, possible use in field survey of cattle in Britain

Immunofluorescence

- Morzaria, S. P.; and Young, A. S., 1977, *Research Vet. Sc.*, v. 23 (1), 55-58
Babesia bigemina, identification of developmental stages in the haemolymph of *Boophilus decoloratus* using indirect fluorescent antibody technique

Immunofluorescence

- Moulton, J. E.; Coleman, J. L.; and Gee, M. K., 1975, *Am. J. Vet. Research*, v. 36 (4), 357-366
Trypanosoma equiperdum, pathogenesis in rabbits, lesions in skin, spleen, lymph nodes, and kidney, amyloid deposition, serum and tissue IgM and IgG, fluorescent antibody studies, agglutination test, depressed antibody response to ovine erythrocytes

Immunofluorescence

- Moulton, J. E.; and Sollod, A. E., 1976, *Am. J. Vet. Research*, v. 37 (7), 791-802
Trypanosoma brucei, calves (exper.), clinical changes, parasitemia, antibody titration (indirect fluorescent antibody technique), IgG and IgM, histopathology

Immunofluorescence

- Movsesijan, M.; et al., 1975, *Research Vet. Sc.*, v. 18 (2), 171-174
 IgG immunoglobulin levels and indirect fluorescent antibody titres to *Fasciola hepatica* digestive tract antigens in exper. infected lambs, antibody activity demonstrated in IgG-1 but not in IgG-2

Immunofluorescence

- Movsesijan, M.; and Lalic, R., 1971, *Acta Parasitol. Iugoslavica*, v. 2 (2), 57-65
D[ictyocaulus] filaria, sheep, diagnosis, localization of antigen-antibody complex

Immunofluorescence

- Mueller, F.; and Klein, P., 1975, *Med. Microbiol. and Immunol.*, v. 162 (1), 55-61
 possible immunologic differentiation between immunoglobulin M, immunofluorescent and complement fixing antibodies, role in serodiagnosis of human *Toxoplasma gondii*

Immunofluorescence

- Munday, B. L.; et al., 1975, *Research Vet. Sc.*, v. 18 (2), 218-219
Toxoplasma gondii, sera from aborted or newborn lambs with congenital infections fractionated on Sephadex G-200, sera and fractions tested for antibodies using indirect fluorescent antibody test, most of antibody found in IgG fraction

Immunofluorescence

- Murrell, K. D.; et al., 1977, *Exper. Parasitol.*, v. 41 (2), 446-463
Schistosoma mansoni, surface membrane antigens, extraction and partial characterization using assays based on competitive inhibition of human antibodies binding to schistosomules, indirect fluorescent antibody inhibition assay, radioimmune inhibition assay

Immunofluorescence

- Nakabayashi, T.; et al., 1969, *Nettai Igaku (Trop. Med.)*, v. 11 (1), 16-26
 detection in pigs suspected to be infected with *Toxoplasma gondii* using hemagglutination test with the mouse inoculation method or fluorescent antibody test

Immunofluorescence

- Nayebi, M., 1971, *Med. Lab. Tech.*, v. 28 (4), 413-416
 differentiation of *Entamoeba histolytica* K9 and Shirazi strains using immunofluorescence to establish antigenic constitution

Immunofluorescence

- Nedjari, T.; Jungmann, R.; and Hiepe, T., 1976, *Monatsh. Vet.-Med.*, v. 31 (24), 946-947
Sarcocystis bovicanis, cattle (exper.), indirect fluorescent antibody test proved applicable for diagnosis

Immunofluorescence

- Nejmi, S.; and Alami, S., 1973, *Maroc Med.* (572), v. 53, 561-568
Toxoplasma gondii, epidemiologic survey of Moroccan population using immunofluorescence: Maroc

Immunofluorescence

- Niel, G.; et al., 1974, *Medecine et Malad. Infect.*, v. 4 (5), 231-235
Entamoeba histolytica, immunoelectrodifusion in diagnosis of human infection, comparison with immunoelectrophoresis, immunofluorescence and latex agglutination test

Immunofluorescence

Niel, G.; et al., 1976, Path. Biol., v. 24 (4), 277-282

Schistosoma mansoni, *Schistosoma haematobium*, humans, mice, hamsters, existence of serum IgG and IgM antibodies revealed by immunofluorescence which are specific for schistosome digestive tract, possible use in early diagnosis

Immunofluorescence

Niel, G.; Desmonts, G.; and Gentilini, M., 1973, Path. Biol., v. 21 (2), 157-161

human toxoplasmosis, diagnosis using quantitative immunofluorescence and introduction of international units of measurement for world wide usage and accuracy

Immunofluorescence

Norcott, T. C., 1973, Med. J. Australia, v. 2 (1), 21-22

diagnosis of extra-intestinal human *Entamoeba histolytica* by immunofluorescence

Immunofluorescence

Norman, L.; and Kagan, I. G., 1973, Infect. and Immun., v. 8 (3), 317-321

Pneumocystis carinii, human, indirect immunofluorescent test with antigen of partially cleaned parasite cysts, evaluation for sensitivity and specificity, limited comparison with complement fixation test

Immunofluorescence

Nozais, J. P.; et al., 1975, Medecine Trop., v. 35 (5), 413-417

Toxoplasma gondii, epidemiologic survey of disease prevalence using indirect immunofluorescence test, infection at early age, probably through ingestion of contaminated soil as a result of poor hygiene habits: Ivory Coast

Immunofluorescence

Nozais, J. P.; Lebras, M.; and Doucet, J., 1975, Medecine Trop., v. 35 (6), 463-467

Schistosoma mansoni, *Schistosoma haematobium*, mass epidemiologic survey using indirect immunofluorescence test, species differentiation of positive cases using rectal biopsy and quantitative blood tests

Immunofluorescence

Oelerich, S.; Umaly, R. C.; and Lederer, I., 1974, Tropenmed. u. Parasitol., v. 25 (3), 318-326

Schistosoma mansoni, different developmental stages, *S. japonicum*, *Fasciola hepatica*, *Ascaris suum*, cross reactions in double gel diffusion, Cerkarienhüllenreaktion, complement fixation, indirect immunofluorescence, indirect haemagglutination, mice, rabbits

Immunofluorescence

Oudart, J. L.; Diallo, B.; and Rolez, S., 1976, Medecine Afrique Noire, v. 23 (1), 31-37

Trypanosoma brucei gambiense, seroimmunologic diagnosis, immunoglobulins and fluorescent antibodies, standards versus findings in infections

Immunofluorescence

Ozcan, K., 1975, Mikrobiyol. Bul., v. 9 (4), 281-290

Toxoplasma gondii, indirect fluorescent antibody technique and Sabin-Feldman dye test compared for diagnosis in patients with eye diseases: Turkey

Immunofluorescence

Parelkar, S. N.; and Stamm, W. P., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (5), 659-662

Entamoeba histolytica, trophozoites from cultures or in fresh or preserved feces, specific staining by indirect immunofluorescent technique, objective method of identification, scanning of fecal smears quicker and more accurate

Immunofluorescence

Perez, M.; Carson, C. A.; and Ristic, M., 1977, Vet. Parasitol., v. 3 (2), 161-167

Babesia microti, hamsters, cell-mediated immune response measured by leukocyte migration inhibition test, comparison with humoral antibody measurements using indirect fluorescent antibody test

Immunofluorescence

Perie, N. M.; Tinnemans-Anggawidjaja, T.; and Zwart, D., 1975, Tropenmed. und Parasitol., v. 26 (4), 399-404

Trypanosoma spp. in experimentally infected domestic animals, sandwich immunofluorescent complement fixation test compared with indirect fluorescent antibody test for use in detecting binding of complement to antigen-antibody complex

Immunofluorescence

Piekarski, G.; Saathoff, M.; and Nouri-Nekoui, M. H., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (2), 161-173

Leishmania donovani, rats and hamsters (exper.), patients with kala-azar, indirect immunofluorescence and complement fixation tests for detection of antibodies, failure to apply principle of Sabin-Feldman test

Immunofluorescence

Pignol, F.; et al., 1970, Medecine Afrique Noire, v. 17 (6), 449-455

use of indirect immunofluorescence in diagnosis of human thoracic amoebiasis, review

Immunofluorescence

Pinon, J. M.; and Gentilini, M., 1973, Nouv. Presse Med., v. 2 (19), 1283-1287

human filariasis, application of cellular immunologic tests (rosette formation, macrophage migration) in diagnosis and comparison with serologic tests (fluorescent antibody, passive hemagglutination, gel diffusion)

Immunofluorescence

Platt, K. B.; and Adams, L. G., 1976, Research Vet. Sc., v. 21 (1), 53-58

Trypanosoma vivax, calves, indirect fluorescent antibody test (IFAT) evaluated, cross reactivity not observed when sera from calves singularly infected with *T. theileri*, *T. evansi*, *Anaplasma marginale*, *Babesia argentina*, *B. bigemina*, and *Eperythrozoon* spp. were tested in IFAT: South America

Immunofluorescence

- Poels, L. G.; et al., 1977, *Exper. Parasitol.*, v. 42 (1), 182-193
Plasmodium berghei, active immunization of chloroquine-protected mice, immunofluorescence and immunoperoxidase studies, transfer of malaria-immunized spleen cells and/or serum, priming with immune spleen cells, evidence for selective release of protective antigens during course of infection

Immunofluorescence

- Politzar, H., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 22-27
Trypanosoma vivax alone or with *T. brucei* and *T. congolense*, cattle (exper.), homologous and heterologous antibody responses determined by indirect fluorescent antibody test

Immunofluorescence

- Quilici, M.; Assadourian, Y.; and Ranque, P., 1971, *Medecine Trop.*, v. 31 (2), 207-213
 immunological diagnosis and post-treatment evaluation of human echinococcosis, comparison of sero-immunological tests

Immunofluorescence

- Radwanski, Z. K.; et al., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 124-132
Leishmania enriettii in guinea pigs (exper.), use of indirect immunofluorescence to demonstrate antibody response during infection, to detect presence of parasites, gamma-globulin and complement during active infection and during healing process; antibody detected in primary lesions unrelated to healing process or pathogenesis of tissue damage

Immunofluorescence

- Ranque, J.; et al., 1972, *Nouv. Presse Med.*, v. 1 (20), 1363 [Letter]
 human visceral leishmaniasis, value of immunoprecipitation and immunofluorescence in diagnosis, immigrants into France from endemic areas

Immunofluorescence

- Rao, N. A.; and Font, R. L., 1977, *Arch. Ophthalm.*, Chicago, v. 95 (2), 273-277
Toxoplasma gondii causing retinochoroiditis, formalin-fixed human eye tissue, electron microscopic study of cysts, immunofluorescent-antibody technique in diagnosis when routine histologic preparation fails to reveal parasites

Immunofluorescence

- Rasaretnam, R.; and Wijetilaka, S. E., 1976, *Postgrad. Med. J.*, London (607), v. 52, 269-274
 aids to diagnosis of less frequently occurring left lobe hepatic abscess resulting from human *Entamoeba histolytica* infection, case analyses, presenting symptoms

Immunofluorescence

- Reinhardt, D. J.; Kaplan, W.; and Chandler, F. W., 1977, *Am. Rev. Resp. Dis.*, v. 115 (1), 170-172
Pneumocystis carinii, cyst forms morphologically similar to zygomycete spores, direct fluorescent antibody technique helpful in differentiating from fungus

Immunofluorescence

- Remington, J. S.; Miller, M. J.; and Brownlee, I., 1968, *Pediatrics*, *Am. Acad. Pediat.*, v. 41 (6), 1082-1091
Toxoplasma gondii, diagnosis of congenital infection in newborn infants using the fluorescent antibody test to detect IgM antibodies (in absence of placental leak) in newborn serum

Immunofluorescence

- van Renterghem, L.; and van Nimmen, L., 1976, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 235 (4), 559-565
Toxoplasma gondii, indirect immunofluorescence test, polar fluorescence, frequency higher in adults than in children, non-specificity, polar factor shown to be non-specific IgM

Immunofluorescence

- Rezai, H. R.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (2), 149-151
Leishmania donovani, techniques of indirect immunofluorescence and counter current immunoelectrophoresis compared in diagnosing kala-azar in children, immunoelectrophoretic test found useful tool for epidemiologic surveys and diagnosis

Immunofluorescence

- Ridley, D. S.; and Hedge, E. C., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (6), 522-525
 microfilariae of various spp., immunofluorescent reactions involving sheath, cuticle, and cytoplasm, relevance to immuno-evasive mechanisms: (1) microfilariae failed to adsorb non-specific immunoglobulins in contrast to other helminth larvae and non-blood protozoa; (2) sheath of *Wuchereria bancrofti* and *Loa loa* adsorbed specific A and B blood group antigens; (3) low titer reaction between microfilarial cytoplasm (*L. loa* and *W. bancrofti*) and host serum

Immunofluorescence

- Ridley, M. J.; and Ridley, D. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 10-11 [Demonstration]
Giardia lamblia in humans, when associated with malabsorption is also associated with histologic changes in jejunum and with circulating antibody against *G. lamblia* detected by immunofluorescence

Immunofluorescence

- Rifaat, M. A.; et al., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 118-120
Toxoplasma gondii, immunoserological survey for toxoplasmosis conducted by randomly sampling the populations of governorates in Egypt

Immunofluorescence

- Rogers, S.; and Goldsmid, J. M., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (4), 503-504
Terridens deminutus, man, indirect fluorescent antibody test evaluated for possible diagnostic use, some cross reactions with *Necator americanus*, promising epidemiologic tool

Immunofluorescence

- Roux, J.; Picq, J. J.; and Marcadet, Y., 1974, *Medecine Trop.*, v. 34 (2), 145-155
Plasmodium falciparum, application of indirect fluorescent antibody reaction with homologous antigen to epidemiologic and chemoprophylactic studies in human endemic areas: Upper Volta

Immunofluorescence

- Ruitenbergh, E. J.; et al., 1976, *Tijdschr. Diergeneesk.*, v. 101 (2), 57-70
Trichinella spiralis, conventionally raised pigs with experimental infections at various doses, enzyme-linked immunosorbent assay more sensitive than immunofluorescence test, further ways to improve reliability

Immunofluorescence

- Ruitenbergh, E. J.; and Buys, J., 1976, *Vet. Parasitol.*, v. 1 (3), 231-237
Toxocara canis, puppies (exper.), serodiagnosis with immunofluorescence test

Immunofluorescence

- Ruitenbergh, E. J.; and Buys, J., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (1), 31-36
Trypanosoma brucei, enzyme-linked immunosorbent assay (ELISA) for serodiagnosis of human African sleeping sickness, comparison tests with immunofluorescence technique showed good results in rabbits (exper.) and serum from infected humans, cross-reactions only in person with *Leishmania* antibodies, possible application to epidemiologic surveys

Immunofluorescence

- Saathoff, M.; and Dogba, C., 1974, *Tropenmed. u. Parasitol.*, v. 25 (4), 405-412
Schistosoma haematobium, human, prevalence survey, comparison of Cercarien-Hüllenreaktion and indirect immunofluorescent antibody test with one another and with parasitologic diagnosis: south Togo

Immunofluorescence

- Sadun, E. H.; Williams, J. S.; and Gore, R. W., 1973, *Isotopes and Radiation Parasitol.* III, 73-90
Schistosoma mansoni, *S. haematobium*, *Trichinella spiralis*, development of radioactive antigen microprecipitin assay (RAMP), comparison with soluble antigen fluorescent antibody and passive cutaneous anaphylaxis tests, results indicate RAMP measures antibody primarily of IgE class

Immunofluorescence

- de Savigny, D. H.; and Tizard, I. R., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (6), 501-507
Toxocara larva migrans, larval excretions and secretions from in vitro cultures used as antigen in passive hemagglutination and fluorescent antibody tests to diagnose visceral larva migrans in man and laboratory animals (exper.), preliminary evaluation for serodiagnostic purposes, no cross reactions with *Ascaris suum* infections

Immunofluorescence

- Schenk, M. A. M.; Lima, J. D.; and Viana, F. C., 1976, *Arq. Escola Vet. Minas Gerais*, v. 28 (3), 261-266
Toxoplasma gondii, frequency in swine, diagnosis, methylene blue dye test (Sabin-Feldman) compared with indirect fluorescent antibody test: Belo Horizonte, Minas Gerais

Immunofluorescence

- Schierz, G.; and von Busch, K., 1976, *Munchen. Med. Wchnschr.*, v. 118 (26), 839-842
 differentiation between human clinical toxoplasmosis and *Toxoplasma gondii* infection, comparison of Sabin-Feldman dye test, indirect immunofluorescence to detect IgM and IgG antibodies, and complement fixation test

Immunofluorescence

- Schinski, V. D.; Clutter, W. C.; and Murrell, K. D., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (6), 824-831
Schistosoma mansoni, *S. haematobium*, human, immunodiagnosis, enzyme-linked immunosorbent assay and radioimmunoassay compared with indirect hemagglutination and indirect fluorescent antibody techniques

Immunofluorescence

- Seese, F. M.; Wescott, R. B.; and Gorham, J. R., 1976, *Exper. Parasitol.*, v. 39 (2), 214-221
Nippostrongylus brasiliensis, mice, indirect fluorescent antibody studies on localization of antigenic sites within worm and on classes of antibody involved in humoral response

Immunofluorescence

- Senet, J. M.; and Robert, R., 1974, *Medecine et Malad. Infect.*, v. 4 (1), 21-22
Toxoplasma gondii, use of direct and indirect hemagglutination and immunofluorescence in seroimmunologic diagnosis, comparison with Sabin-Feldman dye test

Immunofluorescence

- Senet, J. M.; Robert, R.; and Mauras, G., 1976, *Biomedicine*, v. 25 (6), 212-214
 diagnosis of toxoplasmosis using indirect agglutination for early detection of antibodies, comparison with indirect immunofluorescence

Immunofluorescence

- Shaw, J. J.; and Lainson, R., 1977, *J. Parasitol.*, v. 63 (2), 384-385
Leishmania mexicana amazonensis, simply prepared amastigote antigen for use in indirect fluorescent antibody test

Immunofluorescence

- Shiff, C. J.; and Yiannakis, C., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 427-431
 schistosomiasis, human, prevalence measured by parasitological examination and by fluorescent antibody titrating, correlation detected between mean titer and prevalence of infection particularly in younger people, suggested that fluorescent antibody titrating may be useful epidemiological tool: Rhodesia

- Immunofluorescence**
 Stagno, S.; and Hurtado, R., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 90-91
 Trypanosoma cruzi, early diagnosis of pre-natal infections in newborn infants by demonstration of IgM antibodies using immunodiffusion and immunofluorescence
- Immunofluorescence**
 Stagno, S.; and Saavedra, P., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 122-125
 combined antigen of free trophozoites of Toxoplasma gondii and cultured forms of Trypanosoma cruzi used to simultaneously diagnose both diseases by the indirect immunofluorescence test
- Immunofluorescence**
 Stagno, S.; Saavedra, P.; and Thiermann, E., 1970, Bol. Chileno Parasitol., v. 25 (3-4), 102-105
 Toxoplasma gondii, human, diagnosis, indirect immunofluorescence found comparable to Sabin-Feldman dye test
- Immunofluorescence**
 Stagno, S.; and Thiermann, E., 1970, Bol. Chileno Parasitol., v. 25 (1-2), 9-15
 Toxoplasma gondii, use of indirect immunofluorescence test in place of Sabin-Feldman dye test in diagnosis
- Immunofluorescence**
 Stagno, S.; and Thiermann, E., 1972, Bol. Chileno Parasitol., v. 27 (3-4), 126-129
 diagnosis of congenital toxoplasmosis in children using indirect immunofluorescence with anti-IgM
- Immunofluorescence**
 Stamm, W. P.; Ashley, M. J.; and Bell, K., 1976, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (1), 49-53
 low endemicity area of human amoebiasis, assessment of indirect haemagglutination, latex agglutination, indirect fluorescent antibody test and gel diffusion precipitin test for diagnostic serology
- Immunofluorescence**
 Stamm, W. P.; Ashley, M. J.; and Parelkar, S. N., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 211-213
 amoebiasis, human, diagnosis, commercially available latex agglutination test marketed in kit form as Serameba, compared with gel diffusion precipitin, fluorescent antibody, and indirect haemagglutination tests
- Immunofluorescence**
 Stamm, W. P.; and Parelkar, S. N., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 10 [Demonstration]
 amoebae in tissues can be specifically stained by indirect immunofluorescent technique, in some cases years after original fixation
- Immunofluorescence**
 Stamm, W. P.; Phillips, E. A.; and Bell, K., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 433 [Demonstration]
 Entamoeba histolytica, immunofluorescent staining of trophozoites in culture, in fresh and preserved feces and tissue sections
- Immunofluorescence**
 Stevens, A. R.; et al., 1977, J. Protozool., v. 24 (2), 316-324
 Acanthamoeba castellanii, A. culbertsoni, isolation and purity of plasma membrane antigens (electron microscopy, assays of marker enzymes), antisera raised against these antigens tested against homologous and heterologous Acanthamoeba spp. in agglutination and immunofluorescence tests, results strongly indicate value of plasma membrane antisera for immunotaxonomy and immunodiagnosis of Acanthamoeba
- Immunofluorescence**
 Stevenson, P.; and Jacobs, D. E., 1977, J. Helminth., v. 51 (2), 149-154
 Toxocara canis, T. cati, Ascaris suum, Toxascaris leonina, Parascaris equorum, pigs (exper.), in vitro larval precipitate test and indirect fluorescent antibody test using T. canis larvae as antigen, indirect fluorescent antibody test using A. suum larvae as antigen, specificity
- Immunofluorescence**
 Stoll, L.; and Kraft, B., 1976, Deutsche Tierärztl. Wchnschr., v. 83 (4), 137-140
 Toxoplasma gondii, swine, diagnosis, indirect fluorescent antibody test for lymph nodes (details of technique described) more sensitive than examination of blood samples by Sabin-Feldman test
- Immunofluorescence**
 Streefkerk, J. G.; et al., 1975, J. Immunol. Methods, v. 8 (3), 251-256
 antigen-coupled beads adherent to slides as immunohistochemical means of detecting antibodies in serum by both immunofluorescence (Schistosoma mansoni used as antigen) and immunohistoperoxidase procedures
- Immunofluorescence**
 Sturrock, R. F.; and Woodstock, L., 1973, Ann. Trop. Med. and Parasitol., v. 67 (4), 425-430
 Schistosoma mansoni, unisexual vs. bisexual infections of mice, no significant difference in development of fluorescent antibodies, suggested that some of 'false' positive FA reactions reported among apparently egg-free humans may be due to unisexual S. mansoni infection
- Immunofluorescence**
 Styles, T. J.; and Krautter, F. H., 1976, J. Protozool., v. 23 (2), 16A [Abstract]
 Trypanosoma lewisi, tissue forms studied with fluorescent antibody technique

Immunofluorescence

Sulzer, A. J.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 55-58
malaria, human, diagnosis, indirect fluorescent antibody test using multi-species thick smear antigen containing equal proportions of *Plasmodium vivax*, *P. falciparum*, and *P. brasilianum* (latter serologically equivalent in IFA test to *P. malariae*), circumvents need for multiple testing with several antigen species

Immunofluorescence

Sulzer, A. J.; and Latorre, C. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (6), 553 [Letter]
primate malarias, method for in vitro production of schizont antigens for use in indirect immunofluorescence tests for malarial antibodies

Immunofluorescence

Suzuki, N.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 35-40
Toxoplasma gondii, mice and rats (exper.), blood changes; rats (exper.), antibody titers by dye test and indirect immunofluorescence, erythrocytes showed positive Coombs' reaction suggesting presence of auto-immune acquired hemolytic process

Immunofluorescence

Szarfman, A.; et al., 1975, Am. J. Trop. Med. and Hyg., v. 24 (1), 19-24
evaluation of specificity of EVI factor observed in *Trypanosoma cruzi* cases using indirect fluorescent antibody test on sera from patients with other parasitic diseases, immunofluorescence of anti-skeletal muscle antibody from leishmaniasis

Immunofluorescence

Szarfman, A.; et al., 1977, J. Parasitol., v. 63 (1), 149
Trypanosoma cruzi, patients with acute Chagas disease, EVI antibodies, specific agglutinins, and IFA antibodies

Immunofluorescence

Takahashi, K.; et al., 1976, Brit. Vet. J., v. 132 (1), 112-117
Theileria sergenti, cattle (exper.), antibody levels, parasitaemia, packed cell volume, indirect fluorescent antibody test on whole serum, IgG, and IgM, possible role of humoral antibody detected by IFA test in inhibition of parasitaemia

Immunofluorescence

Takahashi, K.; Yamashita, S.; and Shimizu, Y., 1975, Japan. J. Vet. Sc., Tokyo, v. 37 (5), 295-301
Theileria sergenti, cattle, indirect fluorescent antibody test; relationship of varying antibody titer to course of infection and clinical signs; severe infection in splenectomized calves with no antibody developed; resistance to challenge infection in previously infected calves; recrudescence of infection in calves given corticosteroids; possible humoral factor in immune mechanism and cell-mediated immunity relationship to relapse

Immunofluorescence

Terpstra, W. J.; et al., 1976, Trop. and Geogr. Med., v. 28 (4), 364 [Abstract]
Schistosoma mansoni, *S. haematobium*, worm antigens, distinct focal and diffuse immunofluorescence patterns

Immunofluorescence

Thomaidis, T.; et al., 1977, Arch. Dis. Childhood, v. 52 (5), 403-407
Toxoplasma gondii, survey of relationship between toxoplasmosis and chronic lymphadenopathy in children, need for inclusion in differential diagnosis of lymphoglandular enlargement: Greece

Immunofluorescence

Thomas, V.; and Dissanaike, A. S., 1977, Am. J. Trop. Med. and Hyg., v. 26 (4), 602-606
Plasmodium spp., detection of malaria endemicity among Orang Asli aborigines using *Plasmodium falciparum* and *P. brasilianum* antigens and indirect fluorescent antibody test (IFA), age dependent increase in number of positive results, IFA valuable as adjunct to blood slide examination especially when parasites are at very low levels: Malaysia

Immunofluorescence

Todorovic, R. A.; and Long, R. F., 1976, Tropenmed. u. Parasitol., v. 27 (2), 169-181
indirect fluorescent antibody test found superior to complement fixation test as epidemiologic tool to detect *Babesia bigemina* and *B. argentina* infections in cattle, some cross reactivity in differentiating between spp.: Colombia

Immunofluorescence

Toure, S. M.; et al., 1975, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 28 (4), 463-472
trypanosomiasis, cattle, evaluation of indirect fluorescent antibody test in diagnosis and epizootiological surveys: Senegal

Immunofluorescence

Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 413-421
various schistosome antigens tested against sera from parasitologically proven human cases of *Schistosoma mansoni* and *S. haematobium*, Cercarienhullenreaktion, indirect fluorescent antibody test, complement fixation test, indirect haemagglutination test

Immunofluorescence

Umaly, R. C.; Oelerich, S.; and Haas, J., 1974, Tropenmed. u. Parasitol., v. 25 (4), 422-432
Schistosoma haematobium, human, with and without other helminthic infections, serodiagnosis, various schistosome antigens plus *Ascaris suum* and *Fasciola hepatica* tested in Cercarienhullenreaktion, indirect immunofluorescence, indirect haemagglutination, complement fixation, and double gel diffusion tests, evaluation of sensitivity and specificity, attempt to correlate results of serologic tests with some clinical symptoms and with influence of chemotherapy

Immunofluorescence

Undeen, A. H.; and Alger, N. E., 1977, *Science Biol. J.*, v. 3 (1), 259-262

Nosema algerae in white mice (exper.), antibody detected by indirect fluorescent antibody test and by slide spore agglutination test, possible usefulness in safety evaluation phase of prospective microsporidia biological control agents to determine mammalian exposure

Immunofluorescence

Valkoun, A.; and Jira, J., 1975, *J. Protozool.*, v. 22 (3), 69A [Abstract]

Toxoplasma gondii, use of lyophilized antigen for indirect fluorescent antibody test

Immunofluorescence

Verma, B. B.; and Gautam, O. P., 1977, *Indian Vet. J.*, v. 54 (10), 809-813

Trypanosoma evansi, buffaloes, calves (both exper.), diagnosis, comparison of passive haemagglutination, gel diffusion and indirect fluorescent antibody tests

Immunofluorescence

Vetter, J. C. M.; and Klaver-Wesseling, J. C., M., 1977, *Trop. and Geogr. Med.*, v. 29 (3), 319 [Abstract]

hookworms, dogs, detection of antibodies using indirect fluorescent antibody technique was successful against cryostat sections of infective larvae but not against living infective larvae

Immunofluorescence

Waller, T., 1977, *Lab. Animals*, v. 11 (2), 93-97

Encephalitozoon cuniculi, rabbits, rapid diagnosis by india-ink immunoreaction, comparison with indirect fluorescent antibody and skin hypersensitivity tests

Immunofluorescence

Warren, M.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 20-25

Plasmodium falciparum, human, localized epidemics, serologic assessment with indirect fluorescent antibody method provides valuable information but must be interpreted in association with other known epidemiologic factors: El Salvador; Panama

Immunofluorescence

Weiland, G.; and Kaggwa, E., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 177

Besnoitia besnoiti, *B. jellisoni*, rabbits, indirect immunofluorescence tests, enzyme labelling tests

Immunofluorescence

Weiss, N.; and Degremont, A., 1976, *Praxis, Bern*, v. 65 (24), 742-744

human malaria, comparative evaluation of *Plasmodium gallinaceum*, *P. falciparum* and *P. cynomolgi bastianellii* as antigens for indirect immunofluorescence used for diagnosis

Immunofluorescence

Weiss, N.; and Degremont, A., 1976, *Tropenmed. u. Parasitol.*, v. 27 (3), 377-384

filariasis in persons returning from endemic areas, comparison immunoserologic diagnostic tests (immuno-electrophoresis, indirect fluorescent antibody, indirect hemagglutination, two-dimensional gel diffusion tests) showed that highest sensitivity obtained with immunoelectrophoresis, combined tests gave best results

Immunofluorescence

Wellde, B. T.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 181-183

Trypanosoma congolense, cattle, clinical signs and parasitaemia, haematology, serum proteins, serum biochemical components, histopathologic findings, diagnosis by complement fixation test compared with indirect fluorescent antibody test

Immunofluorescence

Wells, E. A.; Betancourt, A.; and Ramirez, L. E., 1977, *J. Protozool.*, v. 24 (4), 41A-42A [Abstract]

Trypanosoma vivax, cattle, positive sera in indirect fluorescent antibody test demonstrated in Colombia, El Salvador, Costa Rica, Ecuador, Peru, the Mato Grosso of Brazil and Paraguay

Immunofluorescence

Wiesenhuetter, E., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (1), 60-66

trypanosomiasis, Zebu cattle, diagnosis, comparison of indirect fluorescent antibody test with microscopic examination, IFA proved to be reliable and rapid diagnostic aid useful for epizootiological studies: Tanzania

Immunofluorescence

Wikerhauser, T., 1975, Vaccination of cattle against cysticercosis /C. bovis. Final research report. 33 pp., illus.

Taenia saginata, calves, immunizing trials (homologous and heterologous vaccines, passive immunization with homologous antiserum), highest protection against oral challenge observed in calves receiving intramuscular injection of hatched non-attenuated homologous oncospheres; homologous antiserum proved ineffective; indirect fluorescent antibody test, especially micro-IFAT, useful for herd screening of bovine cysticercosis

Immunofluorescence

Wilkins, H. A.; and Capron, A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (2), 186-195

Schistosoma haematobium in Gambian community, relation of antibody levels to age (indirect fluorescent antibody and indirect haemagglutination tests), seasonal changes in antibody level, relation of antibody to subsequent changes in egg output, results suggest that serologic parameters may have some relationship to protective immunity and immune response should be considered as factor in epidemiologic studies

Immunofluorescence

Willært, E.; and Stevens, A. R., 1976, Path. Biol., v. 24 (2), 89-91

Acanthamoeba castellanii, purified plasma membranes, elicited antisera assayed by immunoprecipitation and immunofluorescence methods, cross reaction with other species of *Acanthamoeba*; plasma membrane antisera may allow identification of species or even strains

Immunofluorescence

Willært, E.; and Stevens, A. R., 1976, Path. Biol., v. 24 (8), 545-547

Acanthamoeba castellanii, *A. culbertsoni*, humans, fatal meningoencephalitis, case reports, indirect immunofluorescence diagnosis at post-mortems: Texas; Peru; Venezuela

Immunofluorescence

Wilson, M.; et al., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, part 1), 1159-1163
human schistosomiasis, serodiagnosis evaluating the indirect immunofluorescence (IIF) and complement fixation (CF) tests concluded that IIF with adult antigen is more sensitive and as specific as CF and therefore is the procedure of choice for routine diagnostic serology

Immunofluorescence

Wilson, R. J. M.; and Williams, K., 1973, Ann. Trop. Med. and Parasitol., v. 67 (1), 15-20
European with suspected pyrimethamine-resistant malaria, serological study (fluorescent antibody test, C-reactive protein, precipitin test, immunoglobulin levels), precipitating antibodies demonstrated against two specific malarial antigens, differences from antibodies seen in sera from repeatedly infected Africans: The Gambia, West Africa

Immunofluorescence

Wong, M. M., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (6), 479-490
Dirofilaria immitis in normal and immunosuppressed *Macaca* spp., histopathology, W.B.C. and eosinophil counts, radiological examination, serological examination by IFA test, recovery of adult worms only in immunosuppressed hosts indicates that host susceptibility rather than parasite infectivity was the factor concerned

Immunofluorescence

Wosu, N. J.; et al., 1977, Lab. Animal Sc., v. 27 (2), 210-216
Encephalitozoon cuniculi, rabbits (exper.), diagnosis by immunofluorescence and intradermal test, no cross reactions between *E. cuniculi* and experimentally induced *Toxoplasma gondii*, *Eimeria perforans*, or *E. stiedai*

Immunofluorescence

Yarzabal, L.; et al., 1976, Exper. Parasitol., v. 40 (3), 391-396
Echinococcus granulosus hydatid cysts, tissue localization of specific antigen "5" detected by indirect immunofluorescent test

Immunofluorescence

Yogore, M. G.; Ozcel, M. A.; and Lewert, R. M., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 353-354

Schistosoma japonicum, immunofluorescence of circumoval precipitate, all three major Ig classes found to participate in formation of precipitate (IgA < IgG < IgM), IgE and C3 also contributed

Immunofluorescence

Yong, W. K., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 338-344

Wuchereria bancrofti, human, immunodiagnosis by indirect fluorescent antibody test using actual causal agent as antigen (micro-fragments of microfilariae and/or infective stage larvae)

Immunofluorescence

Zeromski, J.; and Jazbor, A., 1969, Acta Parasitol. Polon., v. 17 (1-19), 119-125

Trichinella spiralis, rats, localization of antigens by direct and indirect immunofluorescence, methods compared, antigens found only within developing parasite, probably immunological mechanisms not active in production of clinical symptoms

Immunofluorescence

Zeromski, J.; and Jazbor, A., 1969, Acta Parasitol. Polon., v. 17 (1-19), 127-130

Trichinella spiralis, rats, immunofluorescent fixation of heterologous complement by larval antigens; antilarval antibodies apparently present in host serum very early

Immunofluorescence

Zuckerman, A., 1977, Exper. Parasitol., v. 42 (2), 374-446

Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunofluorescence

Zuckerman, A.; and Jacobson, R. L., 1976, Internat. J. Parasitol., v. 6 (2), 103-106

Plasmodium berghei, rats, transfer of normal or immune spleen cells induces accelerated fluorescent antibody response, only immune cells induce protection against challenge; pre-treatment of donors with cyclophosphamide depletes spleens but affects neither antibody response nor protection-inducing potential in recipients

Immunoglobulins. See Immunity; Proteins, Blood.Immunological deficiency states. See Immunological unresponsiveness.Immunological tolerance. See Immunological unresponsiveness.

Immunological unresponsiveness

Ackerman, S.; and Seed, J. R., 1973, J. Protozool., v. 20 (4), 511

immunosuppression in *Trypanosoma gambiense*-infected *Microtus montanus* detected by reduced immune response to human red blood cells and by immunocytoadherence experiments

Immunological unresponsiveness

Ackerman, S. B.; and Seed, J. R., 1976, Clin. and Exper. Immunol., v. 25 (1), 152-158

Trypanosoma brucei gambiense in *Microtus montanus*, immunodepression of both humoral and cell-mediated immune responses, previously established specific antibody levels not affected by infection, specific antibody-producing capabilities of suramin-cured hosts were comparable to uninfected controls

Immunological unresponsiveness

Ackerman, S. B.; and Seed, J. R., 1976, Experimentia, v. 32 (5), 645-647

tryptophol administered to *Microtus montanus* and white mice, depressed antibody production to human erythrocytes, no alteration of cell-mediated responses to oxazalone, trypanosome-produced tryptophol may account for immunodepression during trypanosomiasis

Immunological unresponsiveness

Ackerman, S. B.; and Seed, J. R., 1976, Infect. and Immun., v. 13 (2), 388-391

Trypanosoma brucei gambiense-infected *Microtus montanus*, increased susceptibility to Ehrlich's tumor growth, implications of trypanosome-induced immunosuppression toward susceptibility to neoplastic growth

Immunological unresponsiveness

Aiuti, F.; et al., 1977, Ztschr. Immunitaetsforsch., v. 153 (2), 95-106

Pneumocystis carinii and giardiasis as conditions which should alert paediatricians to possible diagnosis of severe combined immunodeficiency and related syndromes

Immunological unresponsiveness

Albright, J. F.; Albright, J. W.; and Dusanic, D. G., 1977, J. Reticuloendothel. Soc., v. 21 (1), 21-31

Trypanosoma musculi, mice, correlation between parasitemia, splenic enlargement, and suppression of humoral immune response assessed both in vivo and in vitro, spleen cells of infected mice were unresponsive to both B and T cell mitogens during time of marked splenomegaly, blood serum of infected mice and extract of parasite both inhibit humoral immune response

Immunological unresponsiveness

Ali-Khan, Z.; and Seemayer, T. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 473-476

Strongyloides stercoralis, fatal bowel infarction and septicemia in man with systemic strongyloidiasis, clinical case report, possible relationships between auto-infection and long-term steroid therapy: Montreal, Canada (immigrant from Hong Kong)

Immunological unresponsiveness

Anderson, W. I.; et al., 1977, Avian Dis., v. 21 (4), 637-641

Eimeria tenella, development of immunity in chicks experimentally infected with infectious bursal disease virus at various times before and during coccidial challenge, results indicate viral infection prior to or concurrent with *Eimeria tenella* immunization significantly reduced immune protection

Immunological unresponsiveness

Andreassen, J.; Hindsbo, O.; and Ruitenbergh, J., 1976, Parasitology, v. 73 (2), xxx-xxxii [Abstract]

Hymenolepis diminuta in congenitally athymic nude mice, primary immune response is not only thymus-dependent but dose-dependent, failure to show challenge responses may be because immunization doses were too low

Immunological unresponsiveness

Araujo, F. G.; et al., 1977, Clin. and Exper. Immunol., v. 28 (2), 289-291

Schistosoma mansoni, impairment of cell-mediated immune response in mice with mature infections as measured through rejection of skin grafts

Immunological unresponsiveness

Assoku, R. K. G.; Tizard, I. R.; and Nielsen, K. H., 1977, Lancet, London (8045), v. 2, 956-958

human African trypanosomiasis, hypothesis that immunosuppression may be result of collective immunosuppressive effects of trypanosome-derived immune-modulating free fatty acids, polyclonally stimulated B-cell mitogen and complement-activating factors

Immunological unresponsiveness

Bach, J. F., 1976, Path. Biol., v. 24 (2), 117-125

human protozoan diseases in patients receiving immunosuppressive agents depressing T lymphocytes and B lymphocytes, brief review

Immunological unresponsiveness

Bailenger, J.; et al., [1977], Ann. Parasitol., v. 51 (6), 1976, 653-665

Strongyloides ratti, rats, inhibition of self cure by treatment with glucocorticosteroids or ACTH

Immunological unresponsiveness

Bale, P. M.; and Mani, M. K., 1970, Pathology, v. 2 (4), 317-322

Pneumocystis carinii in patients after renal transplantations, necropsy assessment of significance of *Pneumocystis* in pulmonary disease of transplant recipients: Sydney, Australia

Immunological unresponsiveness

Bamford, C. R., 1975, Neurology, v. 25 (4), 343-345

Toxoplasma gondii presenting with symptoms of brain abscess and meningitis in 41-year-old man being treated for scleroderma with cyclophosphamide, some improvement after therapy with sulfisoxazole and pyrimethamine: Tuscon, Arizona

Immunological unresponsiveness

Baron, R. W.; and Tanner, C. E., 1976, Internat. J. Parasitol., v. 6 (1), 37-42

Echinococcus multilocularis in T-cell depleted A/J mice, adult thymectomy enhances metastasis but not growth of cysts, combined thymectomy and antithymocyte serum enhances both cyst growth and metastasis, suggested that cell-mediated immunity controls early phase of infection

Immunological unresponsiveness

Behnke, J. M.; Wakelin, D.; and Wilson, M. M., 1977, *Parasitology*, v. 75 (2), xxxiv-xxxv [Abstract]
interactions between intestinal phase of *Trichinella spiralis* and *Nematospiroides dubius*

Immunological unresponsiveness

Belehu, A.; Poulter, L. W.; and Turk, J. L., 1976, *Clin. and Exper. Immunol.*, v. 24 (1), 125-132

Leishmania enriettii, guinea pigs, pretreatment with cyclophosphamide, increased intensity of initial lesion and increased incidence of widespread metastases, decreased levels of circulating antibody, possible differential roles of cell-mediated immunity and humoral antibody in cutaneous leishmaniasis

Immunological unresponsiveness

Belehu, A.; Poulter, L. W.; and Turk, J. L., 1976, *Infect. and Immun.*, v. 14 (2), 457-462
hamsters, effect of *Plasmodium berghei* or *P. yoelii* malaria on concurrent *Leishmania enriettii* infection depended on relative timing of two infections

Immunological unresponsiveness

Bello, T. R.; Amborski, G. F.; and Torbert, B. J., 1973, *Am. J. Vet. Research*, v. 34 (10), 1291-1297
methotrexate, immunosuppressive and toxic effects used alone or in combination with antihistamine compounds on parasite-free or *Strongylus vulgaris*-infected ponies

Immunological unresponsiveness

van Berkel, W.; Kuipers, F. C.; and Spruit, T. C., 1976, *Nederl. Tijdschr. Geneesk.*, v. 120 (32), 1368-1370
Toxoplasma gondii, woman undergoing treatment for chronic Hodgkin's disease, death as a result of necrotizing encephalitis caused by toxoplasmosis

Immunological unresponsiveness

Bitoun, A.; et al., 1972, *Nouv. Presse Med.*, v. 1 (29), 1935-1937
massive severe strongyloidiasis in young woman being treated with cortico-steroids, thiabendazole therapy, clinical case report: Paris, France (native of Gabon)

Immunological unresponsiveness

Blair, L. S.; and Campbell, W. C., 1976, *J. Parasitol.*, v. 62 (1), 163-164
Taenia crassiceps metacestodes, successful exper. infection of normal as well as immunosuppressed rats, greater larval multiplication in female hosts

Immunological unresponsiveness

Bland, P. W., 1976, *Parasitology*, v. 72 (1), 93-97
Hymenolepis diminuta, retention of infection in congenitally athymic nude mice, evidence that immune rejection from normal mice is thymus-dependent

Immunological unresponsiveness

Bomford, R.; and Wedderburn, N., 1973, *Nature* (5398), v. 242, 471-473

Plasmodium berghei yoelii infection potentiates induction of lymphomas in mice by Moloney leukaemia virus, effect accompanied by reduction in detectable levels of circulating neutralizing antibody to the virus and in particular by absence of IgG neutralizing antibody

Immunological unresponsiveness

Brambilla, E.; Galli, L.; and Caprotti, M., 1974, *Riv. Parassitol., Roma*, v. 35 (4), 237-244

Plasmodium berghei in *Mus musculus* subject to thermal stress or whole-body irradiation, lower dose of chloroquine is therapeutically effective

Immunological unresponsiveness

Bray, R. S.; and Harris, W. G., 1977, *Clin. and Exper. Immunol.*, v. 29 (1), 147-151
Entamoeba histolytica, guinea pigs, cellular immune responses to amoebic liver abscess, no dermal hypersensitivity but positive lymphocyte transformation and macrophage-migration inhibition, time sequence of responses, role of immunodepression unclear

Immunological unresponsiveness

Brener, Z.; and Chiari, E., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 629-636
Trypanosoma cruzi strains in mice (exper.), effect of immunosuppressive agents (gamma radiation, cyclophosphamide, imuran, and 6-mercaptopurine) administered during the course of chronic infection

Immunological unresponsiveness

Brito, I. V.; Peel, M. M.; and Ree, G. H., 1976, *J. Trop. Med. and Hyg.*, v. 79 (7), 161-163
Schistosoma mansoni-infected mice, reduced antibody response to tetanus antitoxin in comparison trials with uninfected mice, public health implications in endemic areas

Immunological unresponsiveness

Brown, A. R.; Crandall, C. A.; and Crandall, R. B., 1977, *J. Parasitol.*, v. 63 (5), 950-952
Ascaris suum in mice with X-linked B lymphocyte defect, immune response and acquired resistance

Immunological unresponsiveness

Brown, A. R.; Crandall, R. B.; and Crandall, C. A., 1976, *J. Parasitol.*, v. 62 (1), 169-171
Heligmosomoides polygyrus-infected mice, increased IgG catabolism as possible factor in observed suppression of circulating antibody levels following immunization to sheep erythrocytes

Immunological unresponsiveness

Brown, I. N.; Watson, S. R.; and Sljivic, V. S., 1977, *Infect. and Immun.*, v. 16 (2), 456-460
antibody response in vitro of spleen cells from *Plasmodium yoelii*-infected mice, response to sheep erythrocytes enhanced at early stage of infection and depressed at later intervals, cell fractionation experiments indicated a defect of macrophage function, response to dinitrophenylated Ficoll remained normal

Immunological unresponsiveness

Bryceson, A. D. M.; Bray, R. S.; and Dumonde, D. C., 1974, Clin. and Exper. Immunol., v. 16 (2), 189-201

Leishmania enriettii, guinea pigs inoculated with graded doses, relationship between clinical course of infection and immunological response, selective suppression of cell-mediated immunity, extent of delayed hypersensitivity closely related to degree of host resistance, role of humoral antibody less clear

Immunological unresponsiveness

Brys, R.; Haemers, J.; and Barbier, F., 1974, Nederl. Tijdschr. Geneesk., v. 118 (24), 904-908

acute miliary form of toxoplasmosis in girl at age 8 with resulting chronic liver disease later in life, exacerbation of both conditions after immunosuppressive therapy: Netherlands

Immunological unresponsiveness

Brzosko, W. J.; et al., 1976, National Cancer Inst. Monograph (43), 163-169

Pneumocystis carinii, infants, immunofluorescence and immunoelectron microscopic study of tissue, antibodies are essential in elimination of *P. carinii* through their opsonization of the organisms, disintegration of *P. carinii* conglomerates subsequent to binding of complement to immune complexes preceded their phagocytosis, replication of *P. carinii* at rate leading to clinical symptoms is due to impaired and delayed synthesis both of specific antibodies and of complement

Immunological unresponsiveness

Burger, H. J., 1977, Zentralbl. Vet.-Med., Reihe B, v. 24 (1), 1-24

Trichinella spiralis, interference with the cellular immunological system of rats, antithymocyte serum and an antiserum retarded immune elimination of *T. spiralis* from intestine, more pronounced effects in neonatally thymectomized rats; homologous immune serum unable to restore the retarding effect of neonatal thymectomy and/or antithymocyte serum treatment; results suggest that T cells are involved in immune elimination

Immunological unresponsiveness

Burke, B. A., 1976, National Cancer Inst. Monograph (43), 151-156

Pneumocystis carinii infection in humans, methods of diagnosis particularly in immunodeficient patient, classic morphology of organism, review

Immunological unresponsiveness

Burke, B. A.; and Good, R. A., 1973, Medicine, Baltimore, v. 52 (1), 23-51

review of case histories and pathologic findings in 46 patients with *Pneumocystis carinii* infections, comparison of mode of clinical onset, methods of diagnosis, response to therapy and known immunologic features, extensive literature review, morphologic description of organism

Immunological unresponsiveness

Buss, D. H., 1971, North Carolina Med. J., v. 32 (7), 269-274

Strongyloides stercoralis in woman, severe disseminated fatal infection associated with leukemia and immunosuppressive therapy, clinical aspects: North Carolina

Immunological unresponsiveness

Byram, J. E.; and von Lichtenberg, F., 1977, Am. J. Trop. Med. and Hyg., v. 26 (5, part 1), 944-956

Schistosoma mansoni, schistosome egg-induced lesions in nude mice compared with heterozygous controls, nude mice lacked hypersensitivity granulomas and failed to sequester toxic egg products which resulted in zonal hepatocellular damage

Immunological unresponsiveness

Camus, D.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 290 [Demonstration]

Schistosoma mansoni, modulation of host immune response by antagonist factors released by schistosomes

Immunological unresponsiveness

Canto Solis, A.; et al., 1975, Prensa Med. Mexicana, v. 40 (9-10), 275-281

Entamoeba histolytica, human hepatic abscess, immunologic study of infected persons revealed evidence of altered humoral and cellular immunity

Immunological unresponsiveness

Capbern, A.; et al., 1977, Exper. Parasitol., v. 43 (1), 1-11

Trypanosoma equiperdum, multiplication in diffusion chambers implanted subcutaneously in the dorsal region of mice, effect of immunosuppressants, of immune serum, of temperature, of acquired immunity

Immunological unresponsiveness

Capron, A.; et al., 1977, Ann. Immunol., v. 128C (1-2), 541-556

impairment of immune response in parasitic infections characterized by high prevalence of autoantibodies and by immunosuppression, review discussing malaria, trypanosomiasis, trichinosis, and schistosomiasis, with some original material on the last

Immunological unresponsiveness

Chapman, H. D., 1974, Research Vet. Sc., v. 16 (1), 7-11

course of mixed coccidial infection acquired by lambs born at pasture, immunity to challenge following this natural infection and following artificial infection (with primarily *Eimeria ninakohlyakimovae*), betamethasone administration caused increases in oocyst output

Immunological unresponsiveness

Chen, D. H.; Tigelaar, R. E.; and Weinbaum, F. I., 1977, J. Immunol., v. 118 (4), 1322-1327

Plasmodium berghei, immunization of T and B cell-deficient mice with x-irradiated sporozoites, results demonstrate preeminent role for T cells in induction of protective immunity against sporozoite infection

Immunological unresponsiveness

Chen, P.; and Dean, D. A., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (5, part 1), 963-974
Schistosoma mansoni, in vitro blastogenesis and macrophage migration inhibition factor (MIF) production in response to cercarial, adult worm, and egg antigens tested in guinea pigs; early cessation of MIF response to schistosome antigens suggests MIF assay as useful tool for examining immune suppression to schistosomiasis

Immunological unresponsiveness

Chimyshkyan, K. L.; et al., 1976, *Biomedicine*, v. 25 (5), 176-180
 inhibition of transplantation immunity and ability of lymphoid cells to induce graft-versus-host reactions during certain phases of *Trichinella spiralis* infections

Immunological unresponsiveness

Cioli, D.; and Dennert, G., 1976, *J. Immunol.*, v. 117 (1), 59-65
Schistosoma mansoni, effects of immunosuppression on pattern of infection in inbred rats that were thymectomized, irradiated, and reconstituted with T cell-free bone marrow cells, results show definite involvement of immune system in 'self-cure' phenomenon but may suggest involvement of other non-immune mechanisms as well

Immunological unresponsiveness

Clarkson, M. J., 1976, *Parasitology*, v. 73 (2), viii [Abstract]
Trypanosoma brucei, differential serum IgM response in different strains of mice, immunosuppression to sheep red blood cells demonstrated in mice with both high and low IgM concentrations

Immunological unresponsiveness

Colley, D. G.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (5, part 1), 917-925
Schistosoma mansoni, human lymphocyte blastogenic responses to schistosome antigen preparations, suppressive effects of patient sera on responses induced by schistosome eggs and adult worms increased in relationship to duration of serum donor's schistosomal infection, indications that patients develop serum components which interfere with responsiveness of lymphocytes to schistosome-derived antigenic preparations

Immunological unresponsiveness

Connan, R. M., 1976, *Vet. Rec.*, v. 99 (24), 476-477
 gastrointestinal nematodes, suppressed immune response of host during lactation primarily of endocrinal origin, review

Immunological unresponsiveness

Corba, J.; and Spaldonova, R., 1974, *Biologia Bratislava*, s. B, *Zool.* (1), v. 29 (2), 167-173
Trichinella spiralis, mice, immunosuppressive substances given at intestinal phase cause significant increase of muscle trichinellae, but only slight increase when given at migratory phase; host immunity mechanism more effective at intestinal phase and its inhibition causes longer stay in intestine, higher reproduction and more larvae in muscle phase

Immunological unresponsiveness

Corbeil, L. B.; et al., 1976, *Clin. Immunol. and Immunopathol.*, v. 6 (2), 165-173
 canine visceral leishmaniasis with amyloidosis, immunopathological case report, inappropriate increase in humoral response and decrease in cell-mediated immunity: New York State; imported from Greece

Immunological unresponsiveness

Corsini, A. C.; et al., 1977, *Clin. and Exper. Immunol.*, v. 29 (1), 122-131
Trypanosoma brucei, mice, immunodepressing effect of infection can be attributed to clonal exhaustion of B-cell potential caused by undefined blastogenic stimulus from parasites which may operate at least in part by generation of suppressive T cells and macrophages

Immunological unresponsiveness

Coulaud, J. P.; et al., 1975, *Nouv. Presse Med.*, v. 4 (16), 1208-1209 [Letter]
 human massive fatal strongyloidiasis associated with immunosuppressive therapy after renal transplant, clinical review

Immunological unresponsiveness

Cox, J. C., 1977, *Infect. and Immun.*, v. 15 (2), 392-395
Encephalitozoon cuniculi-infected rabbits, depressed IgG response and elevated IgM response to *Brucella abortus* as immunogen

Immunological unresponsiveness

Crandall, C. A.; and Crandall, R. B., 1976, *Exper. Parasitol.*, v. 40 (3), 363-372
Ascaris suum, mice, definite but selective immunosuppression during acute infection

Immunological unresponsiveness

Crandall, R. B.; Crandall, C. A.; and Muth, B., 1976, *J. Parasitol.*, v. 62 (2), 321-323
 acute *Plasmodium berghei yoelii* infection in mice, comparison of delayed hypersensitivity response mediated through spleen vs. that mediated through peripheral lymph nodes

Immunological unresponsiveness

Cypess, R. H.; et al., 1974, *J. Infect. Dis.*, v. 130 (5), 534-538
Nematospiroides dubius, influence of parasitic infection in mouse (exper.) on enteric colonization and immune response to *Escherichia coli*

Immunological unresponsiveness

Dale, D. C.; and Petersdorf, R. G., 1973, *Med. Clin. North Am.*, v. 57 (5), 1277-1287
 parasitic infections in the immuno-suppressed steroid-treated patient, review

Immunological unresponsiveness

Dalesandro, D. A.; and Klei, T. R., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 534-535 [Letter]
Dipetalonema viteae-infected *Mesocricetus auratus* (exper.) and *Meriones unguiculatus* (exper.) showed immunodepression at 10 but not at 5 weeks post-inoculation, possible association between microfilaremia and immunodepression

- Immunological unresponsiveness**
Dallas, A. B. C., 1976, *J. Trop. Med. and Hyg.*, v. 79 (8), 182-188
Trypanosoma brucei rhodesiense, *Plasmodium berghei yoelii*, mice, mutual potentiation of concurrent infections, possibly caused by immunosuppression
- Immunological unresponsiveness**
Dessaint, J. P.; et al., 1977, *European J. Immunol.*, v. 7 (9), 624-629
Schistosoma mansoni, inhibition of lymphocyte proliferation by factor(s) produced by parasite, could explain part of immunosuppression status found in schistosomiasis
- Immunological unresponsiveness**
Dessaint, J. P.; Camus, D.; and Capron, A., 1977, *Ann. Immunol.*, v. 128C (1-2), 57-58
Schistosoma mansoni, release of immunosuppressive factors in vitro and in vivo
- Immunological unresponsiveness**
DeVita, V. T., jr.; et al., 1976, *National Cancer Inst. Monograph* (43), 41-47
Pneumocystis carinii pneumonia in patients with cancer, differential diagnosis, clinical aspects, pentamidine isethionate
- Immunological unresponsiveness**
Diffley, P.; Skeels, M. R.; and Sogandares-Bernal, F., 1976, *Ztschr. Parasitenk.*, v. 49 (2), 133-137
Naegleria fowleri, guinea pigs infected subcutaneously, tested with antigen derived from trophozoites, delayed hypersensitivity reaction; differences in immunocompetence of guinea pigs infected subcutaneously or intranasally discussed
- Immunological unresponsiveness**
Dominguez O., J.; et al., 1977, *Veterinaria, Mexico*, v. 8 (2), 37-41
Sarcoptes scabiei canis, experimental transmission to dog from human having Turner's syndrome and scabies, possibility of human cases of canine scabies under conditions of hormone imbalance or immunological unresponsiveness
- Immunological unresponsiveness**
Dorchies, P., 1975, *Rev. Med. Vet. Toulouse*, v. 126 (10), 1237-1248
helminthiasis, delayed and immediate hypersensitivity, immunological tolerance, epidemiological and pathological aspects, application to diagnosis and immunization, review
- Immunological unresponsiveness**
Drouhet, E.; and Dupont, B., 1976, *Path. Biol.*, v. 24 (2), 99-116
human parasitic disease in patients receiving immunosuppressive treatment, literature review
- Immunological unresponsiveness**
Druilhe, P.; Monjour, L.; and Gentilini, M., 1976, *Nouv. Presse Med.*, v. 5 (22), 1430-1431 [Letter]
Plasmodium falciparum, possible placental transfer from mother to infant of soluble antigens inducing specific immune tolerance
- Immunological unresponsiveness**
Dutz, W.; et al., 1976, *National Cancer Inst. Monograph* (43), 31-40
Pneumocystis carinii interstitial plasma cell pneumonia in premature infants whose passive immunity due to maternally transferred antibodies has lost its effectiveness before infant's humoral immune systems have reached maturity, statistical observations from Shiraz Orphanage in Shiraz, Iran
- Immunological unresponsiveness**
Dwork, K. G.; Jaffe, J. R.; and Lieberman, H. D., 1975, *N. York State J. Med.*, v. 75 (8), 1230-1234
Strongyloides stercoralis, massive hyperinfection in humans with attenuated cell-mediated immunity, case report of mixed infection with toxoplasmosis, literature review of known cases, thiabendazole therapy helpful
- Immunological unresponsiveness**
Dyner, E.; and Liwski, R., 1974, *Polskie Arch. Med. Wewn.*, v. 51 (2), 147-154
Trichomonas vaginalis, *Bodo urinarius*, effects of immunosuppressants in vitro and in vivo (mice)
- Immunological unresponsiveness**
Eardley, D. D.; and Jayawardena, A. N., 1977, *J. Immunol.*, v. 119 (3), 1029-1033
Trypanosoma brucei, T cells from infected mice can mediate suppression of in vitro primary antibody response, adherent cells are also suppressive, B cells are not suppressive but neither are they normally responsive
- Immunological unresponsiveness**
El-On, J.; and Greenblatt, C. L., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (1), 19 [Demonstration]
Trypanosoma lewisi, rats, increased susceptibility to infection when given cyclophosphamide (CyI-rats) as immuno-suppressive, possible role of exoantigens in development of anemia, precipitating antibodies to *Trypanosoma lewisi* in rabbits inoculated with plasma from CyI rats whether infected or not
- Immunological unresponsiveness**
Farah, F. S.; Lazary, S.; and De Weck, A., 1976, *Immunology*, v. 30 (5), 629-634
Leishmania tropica and its products are capable of inhibition of the stimulation of normal mouse and guinea-pig lymphocytes by phytohaemagglutinin, inhibition is dose-dependent and not dependent on competition for nutrients in medium nor on neutralization of phytohaemagglutinin, inhibition observed on lymphocytes of species susceptible to leishmanial infection but not operative in resistant species
- Immunological unresponsiveness**
Faubert, G. M., 1976, *Immunology*, v. 30 (4), 485-489
Trichinella spiralis, depression of plaque-forming cells to sheep red blood cells by new-born larvae in vivo (mice) and in vitro, transitory phenomenon

Immunological unresponsiveness

Faubert, G., 1977, *Ann. Immunol.*, v. 128C (1-2), 281-282

Trichinella spiralis, mice, temporary immunodepression may be related to migrating phase only

Immunological unresponsiveness

Faubert, G. M., 1977, *Exper. Parasitol.*, v. 43 (2), 336-341

Trichinella spiralis in Swiss mice, expulsion rate during primary and challenge infections, numbers of encysted muscle larvae also needed as assay for immunity, response of plaque-forming cells to sheep red blood cells in challenge infections used to determine timing of immunosuppression

Immunological unresponsiveness

Faubert, G. M.; and Tanner, C. E., 1975, *Immunology*, v. 28 (6), 1041-1050

Trichinella spiralis, leucoagglutinating and leucotoxic activity of serum of infected mice and of saline extracts of larvae, capacity of infected mouse sera to prolong skin allografts

Immunological unresponsiveness

Faulkner, S. L.; Richie, R. E.; and Conkle, D. M., 1977, *Am. Rev. Resp. Dis.*, v. 115 (4, pt. 2), 104 [Abstract]

Pneumocystis carinii in immunosuppressed post-operative renal transplant patients, suggested methods to diagnose infection without resorting to thoracotomy

Immunological unresponsiveness

Freeman, J. C.; Hudson, K. M.; and Byner, C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 149 [Abstract]

trypanosome-infected mice, immunosuppression with reduction of IgG producing cells, variations in response with administration of trypanocides prior and subsequent to antigen administration

Immunological unresponsiveness

Frenkel, J. K., 1977, *Am. J. Path.* (418), v. 86 (3), 749-752

Besnoitia jellisoni in *Mesocricetus auratus* (exper.), chronic infection of hamsters provides a sensitive example of immunosuppression by corticosteroids and cytostatic agents, permits study of corticosteroid effects on chronic infection-immunity in the adrenals or the body as a whole

Immunological unresponsiveness

van Furth, R.; and Jones, T. C., 1975, *Infect. and Immun.*, v. 12 (4), 888-890

mouse peritoneal macrophages that have ingested killed *Toxoplasma*, hydrocortisone had no effect on phagosome-lysosome interaction, no change in intracellular microbicidal activity in macrophages treated with glucocorticosteroids

Immunological unresponsiveness

Garre, M.; et al., 1975, *Nouv. Presse Med.*, v. 4 (6), 393-394

Pneumocystis carinii pneumonia in immunologically compromised patient with renal transplant, early diagnosis using distal bronchial brushings

Immunological unresponsiveness

Giebink, G. S.; et al., 1976, *Pediatrics*, *Am. Acad. Pediat.*, v. 58 (1), 115-118

pneumonia unresponsive to antibiotics in 2 Vietnamese infant immigrants, *Pneumocystis carinii* diagnosed by lung biopsy, case reports, probable immune deficiencies, treated with pentamidine isethionate

Immunological unresponsiveness

Gingrich, R. E., 1973, *J. Med. Entom.*, v. 10 (5), 482-487

Hypoderma lineatum, effects of host diet and immunosuppressant treatments (rabbit anti-mouse lymphocyte serum and whole-body irradiation) on survival and growth of larvae and on susceptibility of *Mus musculus* to infestation

Immunological unresponsiveness

Gold, E., 1974, *Med. Clin. North Am.*, v. 58 (3), 649-659

toxoplasmosis, *Pneumocystis carinii*, infections associated with immunologic deficiency diseases of humans

Immunological unresponsiveness

Golenser, J.; et al., 1974, *J. Protozool.*, v. 21 (3), 464 [Abstract]

Plasmodium berghei-infected rats, dynamics of response to sheep erythrocytes

Immunological unresponsiveness

Good, A. H.; and Miller, K. L., 1976, *Infect. and Immun.*, v. 14 (2), 449-456

Taenia crassiceps, mice, depression of both primary and secondary antibody responses to sheep erythrocytes in vivo, secondary in vitro responses are consistently depressed in both spleen and mesenteric lymph node cell preparations from infected mice whereas primary in vitro responses are consistently depressed in mesenteric lymph node cell preparations but not always in spleen cell preparations

Immunological unresponsiveness

Greenwood, B. M.; and Greenwood, A. M., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 581-585

Plasmodium berghei yoelii-infected NZB and B/W hybrid mice, adult mice more susceptible to infection than young mice of same strains, probably due to defective cell-mediated immunity in adults

Immunological unresponsiveness

Greenwood, B. M.; Whittle, H. C.; and Molyneux, D. H., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 846-850

Trypanosoma gambiense, human, immunosuppression, cell-mediated and humoral immunity both impaired

Immunological unresponsiveness

Grove, D. I.; Mahmoud, A. A. F.; and Warren, K. S., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 54 (5), 422-427

metronidazole appears to suppress selectively some aspects of cell-mediated immunity, including granuloma formation around *Schistosoma mansoni* eggs in unsensitized but not in previously sensitized mice

Immunological unresponsiveness

Grove, D. I.; and Warren, K. S., 1976, *Ann. Trop. Med. and Parasitol.*, v. 70 (4), 449-453
Trichinella spiralis, mice, niridazole suppresses cell-mediated reactions but leaves humoral antibody formation relatively intact

Immunological unresponsiveness

Hallett, J. J.; Fickenscher, L. G.; and Ablin, A. R., 1977, *West. J. Med.*, San Francisco, v. 126 (6), 441-444
Pneumocystis carinii pneumonia in children, secondary complication of immunosuppressive therapy, factors to aid in early diagnosis by lung biopsy (open thoracotomy), pentamidine, case reports, clinical aspects: California

Immunological unresponsiveness

Harris, W. G.; and Bray, R. S., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 340-343
Entamoeba histolytica, humans in carrier and disease states, results of lymphocytic transformation in response to specific antigen and to mitogen, specific cellular immunodepression as possible factor in amoebic invasion of bowel mucosa

Immunological unresponsiveness

Hashiguchi, Y.; and Hirai, H., 1977, *J. Helminth.*, v. 51 (1), 87-94
Paragonimus miyazakii, treatment of albino rats with immunosuppressants enhances parasite growth and maturation

Immunological unresponsiveness

Hawking, F.; Wilson, A. J.; and Paris, J., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 289 [Letter]
Trypanosoma congolense, effect of dexamethasone upon infection in calves, results suggest that anemia was not due to auto-immunization but probably due to direct toxic action of trypanosomes on blood

Immunological unresponsiveness

Hayes, T. J.; and Mitrovic, M., 1977, *J. Parasitol.*, v. 63 (3), 584-587
Fasciola hepatica, rats, results indicate that protective immunity is expressed within first 24 hours after challenge, dexamethasone abrogated protective effect of previous infection

Immunological unresponsiveness

Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 121-131
Demodex canis, development of clinical signs of demodectic mange in beagle pups receiving mites and antilymphocyte serum, results indicate importance of cell-mediated response in immune defense against demodectic mange

Immunological unresponsiveness

Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 133-140
Demodex canis, dogs, immediate and delayed skin reactions to phytohemagglutinin and concanavalin A, suppression of delayed response suggests that dogs with demodicosis may have hyporeactive cellular immune system, possible mechanism of immediate response

Immunological unresponsiveness

Hepler, D. I.; and Lueker, D. C., 1976, *Experientia*, v. 32 (3), 386-387
Nematospirides dubius, high degree of native resistance of *Peromyscus maniculatus* to infection, infection only established with use of steroid treatment

Immunological unresponsiveness

Hepler, D. I.; Lueker, D. C.; and Rubin, R., 1976, *J. Parasitol.*, v. 62 (3), 491-492
Nematospirides dubius, vaccination, immune response of outbred mouse strains stronger than inbred ones, oral route of administering larvae superior to subcutaneous route, steroid hormones blocked expression of immunity in subcutaneously vaccinated mice but not in orally vaccinated ones

Immunological unresponsiveness

Herman, R.; and Farrell, J. P., 1977, *J. Protozool.*, v. 24 (3), 429-436
Leishmania donovani, mice, cyclophosphamide suppresses acquired immunity if given when infection becomes chronic, from experiments using such cyclophosphamide-immunosuppressed mice it appears that neither specific humoral anti-leishmanial antibody nor 'immune' macrophages per se is directly responsible for the acquired immunity

Immunological unresponsiveness

Hindsbo, O.; Andreassen, J.; and Ruitenber, J., 1976, *Parasitology*, v. 73 (2), xxx [Abstract]
Hymenolepis diminuta in ATS-treated rats, immune response delayed but not completely inhibited

Immunological unresponsiveness

Hirsh, D. C.; et al., 1975, *Am. J. Vet. Res.*, v. 36 (11), 1591-1595
Demodex canis, suppression of in vitro reactivity of peripheral lymphocytes to phytohemagglutinin by serum from dogs with generalized demodicosis, possible role of T-lymphocyte dysfunction in pathogenesis

Immunological unresponsiveness

Hisano, S.; et al., 1973, *Nippon Kyobu Shikkan Gakkai Zasshi* (*Japan. J. Thorac. Diseases*), v. 11 (2), 79-89
Pneumocystis carinii, pathologic findings of 11 autopsies of persons with pneumocystic pneumonia associated with malignancies and steroid treatment, fine structure morphology of parasite: Japan

Immunological unresponsiveness

Hommel, M., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 268 [Demonstration]
Leishmania donovani, infection of ascitic tumor cells in mice (exper.), possible usefulness in study of host-parasite relationships at cellular level, little immunosuppressive effect of tumor on parasitemia

Immunological unresponsiveness

Hommel, M.; Peters, W.; and Chance, M. L., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (1), 9-10 [Demonstration]
Leishmania braziliensis braziliensis, growth and development in immunosuppressed hamsters and nude mice, pathology

Immunological unresponsiveness

Hopkins, C. A.; and Zajac, A., 1976, *Parasitology*, v. 73 (1), 73-81

Hymenolepis diminuta, transplanted into various classes of mice (naive mice receiving cortisone, naive mice, irradiated naive mice, immunized mice, irradiated immunized mice), differences in time course of rejection response, surgical stress as a possible source of error

Immunological unresponsiveness

Houba, V., 1976, *Pathophysiol. Parasit. Infect.*, 221-232

immunopathological mechanisms in parasitic disease, review (immune complexes; complement; autoimmunity; cell-mediated reactions; immunodepression)

Immunological unresponsiveness

Huber-Bruning, O.; et al., 1973, *Nederl. Tijdschr. Geneesk.*, v. 117 (9), 331-337

toxoplasmosis in woman with associated acquired hypogammaglobulinemia, case report, immunodeficiency: Netherlands

Immunological unresponsiveness

Hudson, K. M.; et al., 1975, *Tr. Roy. Soc.*

Trop. Med. and Hyg., v. 69 (2), 273 [Abstract] *Trypanosoma* *brucei* *brucei* in mice (exper.), depressed immune responsiveness on challenge with heterologous antigens

Immunological unresponsiveness

Hudson, K. M.; et al., 1976, *Nature* (5583), v. 264, 256-258

Trypanosoma brucei brucei, mice, link between immunodepression, high IgM levels and evasion of immune response

Immunological unresponsiveness

Hudson, K. M.; Byner, C.; and Terry, R. J.,

1976, *Parasitology*, v. 73 (2), ix [Abstract] *Trypanosoma brucei* in S42 mice, data which support idea of link between immunodepression and raised levels of IgM characteristic of infection

Immunological unresponsiveness

Huldt, G.; Gard, S.; and Olovson, S. G., 1973, *Nature* (5414), v. 244, 301-303

Toxoplasma gondii, mice, infection affects both anatomy and function of thymus, long-lasting depression of immunological reactivity

Immunological unresponsiveness

Ibanez, E. A.; et al., 1976, *Gac. Vet.*, Buenos Aires (307), v. 38, 7-13

Babesia equi, equine, determination of carriers, application of glucocorticoids to produce hosts for treatment studies

Immunological unresponsiveness

Irvin, A. D.; et al., 1973, *Isotopes and Radiation Parasitol.* III, 155-159

Theileria parva-macroschizont-infected bovine lymphoid cells inoculated into whole-body-irradiated mice, tumors containing macroschizont-infected lymphoid cells developed at inoculation site, no evidence that parasites had invaded mouse cells nor that mouse cells were involved in tumor formation, parasitized cells from tumors successfully transferred back to tissue culture and into other irradiated mice

Immunological unresponsiveness

Irvin, A. D.; et al., 1975, *Nature* (5511), v. 255, 713-714

Theileria parva-infected lymphoid cells, growth in irradiated athymic mice (extensive infiltration causing malignant neoplastic condition), comparison with bovine lymphosarcoma cells (discrete circumscribed tumors with no evidence of metastasis)

Immunological unresponsiveness

Irvin, A. D.; et al., 1977, *Vet. Parasitol.*, v. 3 (2), 141-160

Theileria parva-infected lymphoid cells grown in culture inoculated by different routes into neonatal and adult immunosuppressed Swiss mice and into irradiated and non-irradiated athymic (nude) mice, successful establishment and passage in irradiated nude mice indicate potential usefulness of this model

Immunological unresponsiveness

Isaak, D. D.; Jacobson, R. H.; and Reed, N. D., 1977, *Internat. Arch. Allergy and Applied Immunol.*, v. 55 (1-6), 504-513

Hymenolepis nana, kinetics of infection in normal vs. thymus-deficient mice, concluded that worm expulsion and reinfection immunity are thymus dependent and that tissue phase of infection is of prime importance in stimulating protective immune response

Immunological unresponsiveness

Ivady, G., 1976, *Monatschr. Kinderh.*, v. 124 (7), 577-581

Pneumocystis carinii pneumonia, differentiation into type affecting premature infants and type affecting immunodeficient adults and children, prophylaxis and treatment with pentamidine, pyrimethamine, sulfamethazole

Immunological unresponsiveness

Jacobson, E. S.; and Jacobson, H. G., 1977, *Am. J. Clin. Path.*, v. 68 (6), 791-794

Trichinella spiralis in an immunosuppressed human (leukemia patient), case report, clinical presentation and autopsy findings

Immunological unresponsiveness

Jacobson, R. H.; Reed, N. D.; and Manning, D. D., *Immunology*, v. 32 (6), 867-874

Nippostrongylus brasiliensis, mice experiencing immunosuppressive effects of anti- μ antibodies, worm expulsion unaffected even though antibody production potential had been eliminated, suggests that anti-worm antibodies may not be requisite in mechanism of expulsion

Immunological unresponsiveness

Jayawardena, A. N.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (4), 426 [Demonstration]

Plasmodium berghei yoelii-infected intact and T-cell-deprived mice, *P. b. berghei*-infected mice, responses of spleen cells to phytohaemagglutinin (PHA) and bacterial lipopolysaccharide (LPS) investigated to define changes in functional activity of T- and B-cell populations and relationship to immunodepression

Immunological unresponsiveness

Jayawardena, A. N.; et al., 1977, Immunology, v. 32 (6), 849-859

Plasmodium berghei yoelii (*P. yoelii*), CBA mice, immunological response, general characteristics and effects of T-cell deprivation and reconstitution with thymus grafts

Immunological unresponsiveness

Jayawardena, A. N.; and Waksman, B. H., 1977, Nature (5594), v. 265, 539-541

spleen cells from *Trypanosoma brucei*-infected normal or nude mice, DNA synthetic response to T-cell and B-cell mitogens and allogeneic cells, ability of these spleen cells to influence responses of normal cells, evidence that thymus-dependent suppressor cells are involved in immunological hyporesponsiveness observed in trypanosomiasis

Immunological unresponsiveness

Jehn, U.; et al., 1976, Med. Welt., v. 27 (32), 1489-1492

Pneumocystis carinii pneumonia in man suffering from lymphogranulomatosis resulting in immune deficiency, case report, clinical management: Germany

Immunological unresponsiveness

Jenkins, D. C., 1977, Exper. Parasitol., v. 41 (2), 335-340

Nematospiroides dubius, course of primary and challenge infections in male and female *Meriones unguiculatus*, rate of establishment, morphology, sex ratio and distribution within host intestine, expulsion in primary infections, resistance to challenge infections, lactating jirds with depressed immunocompetence were significantly more susceptible to reinfection than nulliparous jirds of same age

Immunological unresponsiveness

Jenkins, S. N.; and Behnke, J. M., 1977, Parasitology, v. 75 (1), 71-78

Trichuris muris, mice, primary immune expulsion markedly delayed by concurrent infection with *Nematospiroides dubius*, possible relevance in pathogenesis of concurrent tropical diseases

Immunological unresponsiveness

Jenkins, S. N.; and Behnke, J. M., 1977, Parasitology, v. 75 (2), xxxiv [Abstract]

Trichuris muris, delay of primary expulsion in mice concurrently infected with *Nematospiroides dubius*

Immunological unresponsiveness

Jennings, F. W.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 277 [Abstract]
Trypanosoma brucei, mice, findings of increased catabolism of plasma proteins may be contributory factor in immunosuppressive effects associated with trypanosomiasis

Immunological unresponsiveness

Jennings, F. W.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 151 [Abstract]

[*Trypanosoma*] *brucei*-infected mice, immunosuppression, assessment of lymphoid cell response to antigenic stimulation by incorporation of iododeoxyuridine into lymph nodes; immunosuppression apparently specifically associated with presence of living trypanosomes as immunity partially restored if sensitization occurred same day as drug treatment

Immunological unresponsiveness

Jones, J. F.; Crandall, C. A.; and Crandall, R. B., 1976, Cellular Immunol., v. 27 (1), 102-110

Trichinella spiralis, mice, T-dependent suppression of primary antibody response to sheep erythrocytes

Immunological unresponsiveness

Kagei, N.; and Kihata, M., 1976, Bull. Inst. Pub. Health, Tokyo, v. 25 (2), 73-81

Trichuris muris, albino mice (exper.), cortisone-acetate, sharp reduction in worm numbers between 15 and 25 days after infection in untreated controls but not in treated mice

Immunological unresponsiveness

Kasuya, S.; Ohtomo, H.; and Ishizaki, T., 1977, Japan. J. Med. Sc. and Biol., v. 30 (6), 297-307

suppressing effects of purified eosinophils derived from *Ascaris lumbricoides* suum-immunized guinea pigs on lymphocyte blast formation

Immunological unresponsiveness

Kelly, J. D.; and Dineen, J. K., 1973, Immunology, v. 24 (3), 551-558

Nippostrongylus brasiliensis, suppression of rejection in castrated male rats treated with ovine prolactin, main effect of prolactin is directed towards the immunologically specific lymphoid phase of the worm rejection mechanism

Immunological unresponsiveness

Komandarev, S.; and Mikhov, L., 1972, Izvest. Tsentral. Khelmint. Lab., v. 15, 135-142

Trichinella spiralis, mice, experiments do not give evidence of intrauterine transmission of immunological tolerance or immunity

Immunological unresponsiveness

Kretzli, A. U., 1977, J. Protozool., v. 24 (4), 514-518

Trypanosoma cruzi, mice, exacerbating effect of acute infection by *Plasmodium berghei* superimposed on course of chronic Chagas' disease

Immunological unresponsiveness

Krettli, A. U.; and Nussenzweig, R., 1974, Cellular Immunol., v. 13 (3), 440-446
Plasmodium berghei, mice, depletion of T and B lymphocytes during infection, probable causal relationship with malaria-induced immunosuppression

Immunological unresponsiveness

Kunstyr, I.; Ammerpohl, E.; and Meyer, B., 1977, Lab. Animal Sc., v. 27 (5), part II, 782-788
Spiroplasma muris, nude mouse (exper.) an excellent model for immunologic and pharmacologic studies; dimetridazole, metronidazole, tinidazole, and Acranil tested

Immunological unresponsiveness

Kuttler, K. L.; and Adams, L. G., 1977, Am. J. Vet. Research, v. 38 (9), 1327-1330
Anaplasma marginale in splenectomized carrier calves, recrudescence infection resulted from dexamethasone treatment, serum and blood changes during and after treatment suggest blockage of cell-mediated immune system

Immunological unresponsiveness

Lau, W. K.; and Young, L. S., 1976, N. England J. Med., v. 295 (13), 716-718
Pneumocystis carinii pneumonia in adults on immunosuppressive therapy successfully treated with co-trimoxazole; results comparable to those reported for pentamidine

Immunological unresponsiveness

Lefkowitz, L. B., jr., 1977, N. England J. Med., v. 296 (1), 47 [Letter]
Pneumocystis carinii pneumonia in immunologically compromised patients, recommendations and suggestions for co-trimoxazole therapy

Immunological unresponsiveness

Lelchuk, R.; Cardoni, R. L.; and Fuks, A. S., 1977, Clin. and Exper. Immunol., v. 30 (3), 434-438
Trypanosoma cruzi, human, nifurtimox-induced alterations in cell-mediated immunity, detected particularly using peripheral leukocyte migration inhibition

Immunological unresponsiveness

Lewert, R. M., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (2), 289-300
Schistosoma japonicum, humans, hypersensitivity, tolerance and immunopathology, current aspects, speculations

Immunological unresponsiveness

Lindberg, R. E.; and Frenkel, J. K., 1977, Infect. and Immun., v. 15 (3), 855-862
Toxoplasma gondii and Besnoitia jellisoni in vitro in hamster peritoneal exudate cells, antigenic stimulation of peritoneal cells and expression of immunity, inhibition of parasite growth by peritoneal macrophages armed either specifically or nonspecifically, expression of immunity by cells derived from hamsters treated with cortisol, effects of cortisol on (1) immune and non-immune lymphocytes, (2) arming of macrophages by lymphocytes, (3) the ability of peritoneal macrophages to destroy antibody-treated parasites

Immunological unresponsiveness

Lindberg, R. E.; and Frenkel, J. K., 1977, J. Parasitol., v. 63 (2), 219-221
Toxoplasma gondii in nude mice, failure to develop immunity during 3 weeks of sulfadiazine therapy while hirsute littermates developed immunity during this period, intraperitoneal injection of thymus cells from hirsute littermates enabled nude mice to develop immunity during drug prophylaxis but bone marrow cells or high-titered specific antibody did not prolong survival after sulfadiazine was discontinued, immunity appears dependent upon active cellular immunity with role of antibody uncertain

Immunological unresponsiveness

Ljungstroem, I., 1976, Pathophysiol. Parasit. Infect., 247-253
Trichinella spiralis, mice, delay in allograft rejection

Immunological unresponsiveness

Ljungstroem, I.; and Huldt, G., 1977, Acta Path. et Microbiol. Scand., v. 85C (2), 131-141
Trichinella spiralis, mice, humoral and cellular immune responses to unrelated antigens at different stages of infection, humoral response depressed during short period of infection but depression of cell mediated response is more severe and longer lasting

Immunological unresponsiveness

Long, P. L.; and Millard, B. J., 1976, Ztschr. Parasitenk., v. 48 (3-4), 287-290
Eimeria spp., immunized chickens, oocysts produced after corticosteroid treatment in some birds, possibly endogenous cycle continues or remains dormant; possible means of diagnosis of occult infection in apparently immune hosts

Immunological unresponsiveness

Longstaffe, J. A., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 150 [Abstract]
[Trypanosoma] b. brucei-infected guinea pigs, immunodepression in trypanosomiasis, attempts to characterize response of thymus-dependent lymphocytes

Immunological unresponsiveness

Longstaffe, J. A.; Freeman, J.; and Hudson, K. M., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 264-265 [Abstract]
Trypanosoma[a] brucei brucei, mice, some thymus-dependent and thymus-independent immune responses, results support postulation of either impaired T cell viability or impaired T-B cell interaction

Immunological unresponsiveness

Loose, L. D.; and Di Luzio, N. R., 1976, Am. J. Trop. Med. and Hyg., v. 25 (2), 221-228
Plasmodium berghei, mice, temporal relationship between reticuloendothelial system phagocytic alterations and antibody responses, implications for mechanism of malaria-induced immunosuppression

Immunological unresponsiveness

Lubiniecki, A. S.; Cypess, R. H.; and Lucas, J. P., 1974, *Tropenmed. u. Parasitol.*, v. 25 (3), 345-349

Trichinella spiralis-infected mice, altered distribution of intravenously injected sheep erythrocytes (reduced uptake by spleen) but no significant depression of resultant plaque-forming cells or circulating HA antibody

Immunological unresponsiveness

Lucas, S. V.; et al., 1977, *J. Immunol.*, v. 118 (2), 418-422

niridazole-treated rats and a human patient, identification and purification of immunosuppressive activity in urine, purified fractions inhibited MIF production in vitro and suppressed cell-mediated granuloma formation around *Schistosoma mansoni* eggs in vivo (mice)

Immunological unresponsiveness

Lyra, L. G.; Reboucas, G.; and Andrade, Z. A., 1976, *Gastroenterology*, v. 71 (4), 641-645

hepatitis B surface antigen carrier state in hepatosplenic human *Schistosoma mansoni*, incidence and possible correlations with abnormal immune responses and hepatic pathology and cirrhosis

Immunological unresponsiveness

McBride, J. S.; Micklem, H. S.; and Ure, J. M., 1977, *Immunology*, v. 32 (5), 635-644

Plasmodium yoelii yoelii, *P. berghei*, mice, depression of antibody response to type III pneumococcal polysaccharide

Immunological unresponsiveness

McGhee, R. B., 1976, *Exper. Parasitol.*, v. 39 (1), 88-94

Plasmodium gallinaceum-infected immunoincompetent chicken embryos, changes in blood picture in response to injection of serum from hyperimmunized chickens, results suggest definite role of immunity in anemia accompanying malaria, failure to clarify question of autoimmunity

Immunological unresponsiveness

Mahmoud, A. A. F.; et al., 1975, *J. Immunol.*, v. 114 (1, Pt. 2), 279-283

Schistosoma mansoni, mice, niridazole at low doses suppressed granuloma formation around eggs and inhibited delayed footpad swelling in mice previously sensitized with eggs

Immunological unresponsiveness

Mahmoud, A. A. F.; Cheever, A. W.; and Warren, K. S., 1975, *J. Infect. Dis.*, v. 131 (6), 634-642

Schistosoma mansoni in mice with streptozotocin-induced diabetes mellitus, no direct effect on parasite but profound effect on host reactivity, alleviation of clinical disease in acute stage probably related to generalized suppression of cellular hypersensitivity, exacerbation in chronic stage related to megalocytosis of hepatocytes

Immunological unresponsiveness

Mahmoud, A. A. F.; Strickland, G. T.; and Warren, K. S., 1977, *J. Infect. Dis.*, v. 135 (3), 408-413

possible toxoplasmosis induced immunosuppression of cell-mediated immune response in *Schistosoma mansoni*-infected mice (exper.), mice with combined infections showed smaller hepatic granulomas and lower mean portal pressures than those with only schistosomal infections

Immunological unresponsiveness

Mahmoud, A. A. F.; and Warren, K. S., 1974, *J. Immunol.*, v. 112 (1), 222-228

Schistosoma mansoni, mice, anti-inflammatory effects of tartar emetic and niridazole, suppression of schistosome egg granuloma

Immunological unresponsiveness

Mansfield, J. M.; Craig, S. A.; and Stelzer, G. T., 1976, *Infect. and Immun.*, v. 14 (4), 976-981

Trypanosoma brucei, *T. congolense*, mitogenic effects of trypanosome extracts in vitro for lymphocytes from normal rabbits, possible relationship to immunological dysfunctions occurring in chronic African trypanosomiasis

Immunological unresponsiveness

Masihi, K. N.; and Werner, H., 1977, *Experientia*, v. 33 (12), 1586-1587

anti-Toxoplasma antibodies administered passively to mice may lead to suppression or enhancement of subsequent antibody response when these animals are later infected with *Toxoplasma gondii*, outcome dependent on infecting strain of *Toxoplasma* and antigen-antibody ratio, implications for possible influence which passively acquired maternal antibody may exert on foetus

Immunological unresponsiveness

Masihi, K. N.; and Werner, H., 1977, *Zentralbl. Bakteriol.*, 1 Abt., Orig., v. 237 (2-3), 405-410

Toxoplasma gondii, mice, kinetics of antibody-mediated suppression of humoral immune response at a cellular level

Immunological unresponsiveness

Masson, R.; et al., 1975, *Nouv. Presse Med.*, v. 4 (35), 2499-2502

cerebral toxoplasmosis with pseudo-tumoral symptoms of meningoencephalitis in immunologically compromised persons, clinical aspects, sulphadiazine-pyrimethamine therapy: Paris

Immunological unresponsiveness

Mellor, D. H.; and Purcell, M., 1976, *Neuropädiatrie*, v. 7 (4), 423-430

encephalitic illnesses (with visual loss, epilepsy, and right hemiparesis) in child in remission from acute leukemia, suggested involvement of both measles virus and *Toxoplasma gondii* as cause

Immunological unresponsiveness

Miller, D. A.; and Weg, J. G., 1977, *Am. Rev. Resp. Dis.*, v. 115 (4, pt. 2), 267 [Abstract] scabies in immunocompromised patient whose infection was masked by pustular psoriasis, epidemic outbreak in personnel caring for patient in intensive care unit, definitive and prophylactic therapy of personnel and contacts with gamma benzene hexachloride lotion: Michigan

Immunological unresponsiveness

Miser, J. S.; Savitch, J.; and Bleyer, W. A., 1977, *N. England J. Med.*, v. 296 (1), 47 [Letter] *Pneumocystis carinii* pneumonia in immunologically compromised patients, recommendations and suggestions for co-trimoxazole therapy

Immunological unresponsiveness

Mitchell, G. F.; et al., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 95-104
Nippostrongylus brasiliensis infections in hypothymic nu/nu mice

Immunological unresponsiveness

Mitchell, G. F.; et al., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 187-211
Mesocostoides corti, examination of host immunoglobulins (in particular, antiparasite antibodies) associated with parasite larvae, comparison in hypothymic vs. intact mice

Immunological unresponsiveness

Mitchell, G. F.; Goding, J. W.; and Rickard, M. D., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (2), 165-186
Taenia taeniaeformis (*Cysticercus fasciolaris*), mice, antibodies and complement as factors influencing susceptibility/resistance; markedly increased susceptibility of certain complement-deficient mouse strains (in particular, males), of hypothymic mice, and of cyclophosphamide-treated mice; impressive protective activity of immune serum

Immunological unresponsiveness

Mitchell, G. F.; and Handman, E., 1977, *Austral. J. Exper. Biol. and Med. Sc.*, v. 55 (5), 615-622
Mesocostoides corti-infected mice, non-specific immunosuppression after intraperitoneal injection of antigen, mechanism probably sequestration of antigen and its subsequent local destruction

Immunological unresponsiveness

Mitchell, G. F.; and Lewers, H. M., 1976, *Internat. Arch. Allergy and Applied Immunol.*, v. 52 (1-4), 235-240
Ascaris suum, *Nippostrongylus brasiliensis*, mice, inhibition of an anti-DNP antibody response with DNP-Ficol1 containing phosphorylcholine, results suggest that parasites may 'utilize' molecules such as phosphorylcholine to induce state of selective tolerance to parasite antigens as a mechanism for facilitating survival

Immunological unresponsiveness

Moore, D. L.; Heyworth, B.; and Brown, J., 1974, *Clin. and Exper. Immunol.*, v. 17 (4), 647-656
phytohaemagglutinin-induced lymphocyte transformation in leucocyte cultures from malarious, malnourished, and control Gambian children, some depression of response to low doses of PHA in children with malaria

Immunological unresponsiveness

Moore, D. L.; Heyworth, B.; and Brown, J., 1977, *Immunology*, v. 33 (6), 777-785
Gambian children with acute *Plasmodium falciparum* malaria or with acute protein-energy malnutrition, phytohaemagglutinin-induced lymphocyte transformation, depressed responses of purified lymphocytes in autologous plasma paralleled results with whole blood cultures

Immunological unresponsiveness

Mota-Santos, T. A.; et al., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (4), 727-731
Schistosoma mansoni, mice, immunosuppression: during infection; reversal by oxamniquine treatment; induction by adult worm membrane preparations but not by egg extract

Immunological unresponsiveness

Moulton, J. E.; and Coleman, J. L., 1977, *Am. J. Vet. Research*, v. 38 (5), 573-579
Trypanosoma equiperdum, *Peromyscus maniculatus* infected with virulent trypanosomes, decreased immunologic response to injection of sheep red blood cells; deer mice given radio-attenuated trypanosomes, normal to enhanced immunologic response

Immunological unresponsiveness

Moulton, J. E.; Coleman, J. L.; and Gee, M. K., 1975, *Am. J. Vet. Research*, v. 36 (4), 357-366
Trypanosoma equiperdum, pathogenesis in rabbits, lesions in skin, spleen, lymph nodes, and kidney, amyloid deposition, serum and tissue IgM and IgG, fluorescent antibody studies, agglutination test, depressed antibody response to ovine erythrocytes

Immunological unresponsiveness

Munoz, J. J.; and Cole, R. L., 1977, *Infect. and Immun.*, v. 15 (1), 84-90
Trichinella spiralis-infected mice, relative unresponsiveness to passive cutaneous anaphylaxis induced with hen egg albumin and its corresponding antibodies, believed to be due to increase in production of IgE which competitively blocks mast cell sites for other IgE molecules

Immunological unresponsiveness

Murray, M.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 276-277 [Abstract] *Trypanosoma brucei*, pathology in rats: progressive alteration in immunological apparatus leading to immunosuppressed state to other antigens; anemia; specific organ damage and failure

Immunological unresponsiveness

Murray, P. K.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 267 [Abstract]
Trypanosom[*a*] brucei, mice, inability to produce anti-sheep erythrocyte IgM, results suggest immunological defect induced by trypanosome infection may be associated with B cells

Immunological unresponsiveness

Murray, P. K.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 133-150
Trypanosoma brucei in rodents, pathology of immune system, role of mononuclear phagocytic system in immunosuppression, humoral and T cell responsiveness, effect of infection on Nippostrongylus brasiliensis infection, recovery of immune response after trypanocidal therapy, review

Immunological unresponsiveness

Neiman, P. E.; et al., 1977, J. Infect. Dis., v. 136 (6), 754-767
Pneumocystis carinii, organism responsible for transient or fatal interstitial pneumonia in immunosuppressed recipients of allogeneic bone marrow grafts

Immunological unresponsiveness

Ngwenya, B. Z., 1976, Cellular Immunol., v. 24 (1), 116-122
Trichinella spiralis, effect of lactation on cell-mediated immunity, cell transfer studies with lactating and non-lactating mice, lactogenic hormones apparently suppressed expression of adoptive immunity

Immunological unresponsiveness

Ngwenya, B. Z., 1976, J. Parasitol., v. 62 (6), 871-873
Trichinella spiralis, suppression of rejection in mice treated with ovine prolactin

Immunological unresponsiveness

Ngwenya, B. Z., 1977, Internat. J. Parasitol., v. 7 (1), 41-45
Trichinella spiralis, effect of lactation on worm expulsion in (1) lactating, (2) induced agalactic post-parturient, (3) previously sensitized, and (4) mice sensitized during lactation, results indicate lactation suppressed either expression or induction of immunity

Immunological unresponsiveness

Ochs, H. D.; Ament, M. E.; and Davis, S. D., 1972, N. England J. Med., v. 287 (7), 341-342
Giardia lamblia causing malabsorption and damage to mucosa of small intestine in child with infantile X-linked agammaglobulinemia, symptoms relieved with flagyl: Washington

Immunological unresponsiveness

Okumura, K.; Tada, T.; and Ochiai, T., 1974, Immunology, v. 26 (2), 257-268
Ascaris suum, rats, time and dose of anti-thymocyte serum administration are crucial factors in determining subsequent suppressed or enhanced reagenic antibody responses

Immunological unresponsiveness

O'Loughlin, J. M., 1975, Med. Clin. North Am., v. 59 (2), 495-501
Pneumocystis carinii pneumonia, potentially lethal agent in persons receiving immunotherapy, need for early diagnosis, brief clinical review

Immunological unresponsiveness

Otieno, L. H., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (6), 856-869
Trypanosoma brucei, effect of irradiation or cyclophosphamide on course of infection in heat-stressed mice, reduced pathogenic effects in spite of elevated parasitemia, tempting to suggest that direct effect of temperature on trypanosomes was responsible for lowered pathogenicity, many bizarre morphological forms

Immunological unresponsiveness

Ottesen, E. A.; Weller, P. F.; and Heck, L., 1977, Immunology, v. 33 (3), 413-421
Wuchereria bancrofti, human, antigen-specific cellular immune unresponsiveness, unchanged 2 weeks after diethylcarbamazine treatment, this immunologic deficit may be of fundamental importance in pathogenesis of filarial disease: Mauke, Cook Islands

Immunological unresponsiveness

Owor, R.; and Wamukota, W. M., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 497-499
Strongyloides stercoralis in man, fatal overwhelming strongyloidiasis associated with pyogenic meningitis and presence of larvae in meninges, probably depression of cellular immunity (unknown cause) contributed to fatal infection: Uganda

Immunological unresponsiveness

Page, F. T.; and Reeves, D. S., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (2), 256-259
Strongyloides spp., accelerated auto-infection in patient with terminal carcinomatosis, low-grade infection thought to have existed for 26 years before erupting, unusual symptoms with numerous larvae in sputum and feces and no evidence of adult worms even at autopsy, danger of infection spread through larvae-infected sputum: Bristol, United Kingdom

Immunological unresponsiveness

Panitz, E., 1974, Proc. Helminth. Soc. Washington, v. 41 (2), 257-259
adult Trichinella spiralis, distribution in intestine of Meriones unguiculatus, immunosuppressive effect of betamethasone

Immunological unresponsiveness

Pelley, R. P.; Ruffier, J. J.; and Warren, K. S., 1976, Infect. and Immun., v. 13 (4), 1176-1183
Schistosoma mansoni, mice, suppressive effect of infection at various time periods on in vitro responses of spleen and lymph node cells to T cell mitogens (phytohemagglutinin and concanavalin A), findings consistent with existence of suppressor T cells in chronic schistosomiasis, possible role in spontaneous modulation of immunopathology

- Immunological unresponsiveness
 Pennoit, H.; Lameire, N.; and de Tollenaere, G., 1970, *Nederl. Tijdschr. Geneesk.*, v. 114 (31), 1288-1291
 acute toxoplasmosis in woman undergoing corticosteroid treatment for sarcoidosis of the lung, suppression after second course of treatment with sulfadimethoxine, spiramycine, and pyrimethamine; recommendation that patients treated with corticosteroids be subjected regularly to serological tests for toxoplasmosis
- Immunological unresponsiveness
 Phillips, R. S.; and Wakelin, D., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (4), 276 [Demonstration]
Trichuris muris-infected mice, suppression of immunity by concurrent infection with *Babesia* spp., severely depressed agglutinating antibody response to sheep red blood cells
- Immunological unresponsiveness
 Phillips, R. S.; and Wakelin, D., 1976, *Exper. Parasitol.*, v. 39 (1), 95-100
 mice concurrently infected with *Babesia* and *Trichuris muris*, marked immunodepression, normal immune expulsion of nematode delayed; *Babesia* infections had little effect on expulsion of challenge infections of *T. muris* from previously immunized mice; *Babesia* infections exerted profound immunodepressive effect on agglutinating antibody response to sheep red blood cells
- Immunological unresponsiveness
 Phillips, S. M.; et al., 1977, *J. Immunol.*, v. 118 (2), 594-599
Schistosoma mansoni in congenitally athymic (nude) mice, thymic dependency of eosinophilia, granuloma formation, and host morbidity
- Immunological unresponsiveness
 Poels, L. G.; and van Niekerk, C. C., 1977, *Exper. Parasitol.*, v. 42 (1), 235-247
Plasmodium berghei-infected mice, depression of immune responsiveness to sheep erythrocytes, tolerance induced during period of severe immunosuppression, responsiveness restored with chloroquine cure, elevated levels of nonspecific antibodies produced during immunosuppression, possible relationship between hyperimmunoglobulinemia and immunosuppression
- Immunological unresponsiveness
 Poirot, J. L.; et al., 1976, *Ann. Parasitol.*, v. 51 (4), 447-452
Trichinella spiralis, mice, effect of cyclophosphamide treatment on parasite sex ratio and survival, transplantation of 18-day old worms from treated vs. untreated into treated vs. untreated mice
- Immunological unresponsiveness
 Portaro, J. K.; Britton, S.; and Ash, L. R., 1976, *Exper. Parasitol.*, v. 40 (3), 438-446
Brugia pahangi in *Meriones unguiculatus*, depressed reactivity of splenocytes to mitogens phytohemagglutinin and concanavalin A, data suggest this depression is cell-mediated
- Immunological unresponsiveness
 Powles, A. C. P., 1973, *N. Zealand Med. J.* (490), v. 77, 169-171
Strongyloides stercoralis hyperinfection in previously healthy young man being treated with steroids to suppress brain edema caused by head injury, fatal illness, case report, thiabendazole therapy unsuccessful: New Zealand
- Immunological unresponsiveness
 Purvis, A., 1976, *Parasitology*, v. 73 (2), ix [Abstract]
Babesia microti, producing immunodepression in mice
- Immunological unresponsiveness
 Purvis, A. C., 1977, *Parasitology*, v. 75 (2), 197-205
Babesia microti, mice, temporary immunodepression of humoral immune response to sheep red blood cells, cell-mediated responses apparently unaffected, phagocytic activity is increased
- Immunological unresponsiveness
 Raizman, R. E., 1976, *Am. J. Digest. Dis.*, n.s., v. 21 (12), 1070-1074
 human *Giardia lamblia*, extensive review of current concepts of diagnosis, clinical management and treatment, association with immunodeficiency
- Immunological unresponsiveness
 Rank, R. G.; and Weidanz, W. P., 1976, *Proc. Soc. Exper. Biol. and Med.*, v. 151 (2), 257-259
Plasmodium gallinaceum, fatal fulminating parasitemias in agammaglobulinemic chickens, B-cell deficient chickens rescued from primary infection by chloroquine therapy resisted challenge infection, data suggest that premunition to malaria in chickens is B-cell independent
- Immunological unresponsiveness
 Repsher, L. H.; et al., 1976, *National Cancer Inst. Monograph* (43), 127-132
Pneumocystis carinii, diagnosis in immunocompromised host by transbronchial lung biopsy via the fiberoptic bronchoscope, procedure offers diagnostic accuracy
- Immunological unresponsiveness
 Repsher, L. H.; Schroeter, G.; and Hammond, W. S., 1972, *N. England J. Med.*, v. 287 (7), 340-341
Pneumocystis carinii pneumonitis in humans with iatrogenic immune deficiency states, diagnosis by endobronchial brush biopsy
- Immunological unresponsiveness
 Rifkind, D., 1976, *National Cancer Inst. Monograph* (43), 49-54
Pneumocystis carinii pneumonia in renal transplant patients on immunosuppressive therapy, clinical management with isolation procedures to prevent transmission, differential diagnosis, pentamidine isethionate

- Immunological unresponsiveness**
 Rivero, I.; et al., 1975, *Medicina*, Buenos Aires, v. 35 (1), 73-78
 Trypanosoma cruzi as complication in 4 cases of human acute leukemia and acute lymphoblastic leukemia probably resulting from immunosuppression
- Immunological unresponsiveness**
 Roberts, D. W.; et al., 1977, *Infect. and Immun.*, v. 16 (3), 821-826
 Plasmodium berghei yoelii produced fatal infection in nude mice or in mice made B cell deficient by treatment with anti- μ -chain serum, malaria recrudesced in Nu/Nu mice after drug termination of acute disease, recrudescence prevented by thymic grafting or treatment with hyperimmune serum, data suggest that crucial role of thymus is to provide helper function in production of protective antibody
- Immunological unresponsiveness**
 Rodgers, B. M.; and Talbert, J. L., 1977, *Am. Rev. Resp. Dis.*, v. 115 (4, pt. 2), 157 [Abstract]
 Pneumocystis carinii in children receiving immunosuppressive therapy, safe and accurate diagnosis using thoracoscopy
- Immunological unresponsiveness**
 Rottembourg, J.; et al., 1977, *Nouv. Presse Med.*, v. 6 (10), 819-823
 Pneumocystis carinii pneumonia in immunocompromised patient after cardiac transplantation, diagnosis by pulmonary biopsy, treatment with pentamidine, fansidar: France
- Immunological unresponsiveness**
 Ruitenber, E. J.; et al., 1977, *Immunology*, v. 33 (4), 581-587
 Trichinella spiralis, comparison of infection in congenitally athymic (nude) mice and their heterozygous thymus-bearing littermates: expulsion of adult worms; yield of muscle larvae; production of specific antibodies; number of pyroninophilic cells, intra-epithelial lymphocytes, and eosinophils in small intestine; blood eosinophilia; data support thymus dependence of worm expulsion, plasma cell and antibody production, and tissue and blood eosinophilia
- Immunological unresponsiveness**
 Ruitenber, E. J.; Leenstra, F.; and Elgersma, A., 1977, *Brit. J. Exper. Path.*, v. 58 (3), 311-314
 Trichinella spiralis, athymic mice, intestinal pathology; immunological reaction dependent upon host immune status, non-specific histopathological changes thymus-independent
- Immunological unresponsiveness**
 Sanyal, S. K.; Avery, T. L.; and Harris, K. S., 1977, *Am. Rev. Resp. Dis.*, v. 115 (4, pt. 2), 291 [Abstract]
 Pneumocystis carinii pneumocystitis in immunosuppressed children, sequential changes in acid-base and blood-gas profiles, abnormalities may persist into convalescence
- Immunological unresponsiveness**
 Scoggin, C. H.; and Call, N. B., 1977, *Ann. Inst. Med.*, v. 87 (4), 456-458
 disseminated Strongyloides stercoralis, infection in man who had undergone renal transplant, fatal illness unsuccessfully treated with thiabendazole, clinical case report: North Carolina
- Immunological unresponsiveness**
 Scott, J. M.; et al., 1977, *Trop. Animal Health and Prod.*, v. 9 (3), 159-165
 Trypanosoma congolense, cattle (exper.), some immunosuppression after vaccination with foot-and-mouth disease vaccine and clostridial vaccine, but protection against these diseases not impeded
- Immunological unresponsiveness**
 Sharma, S. C.; and Ramachandran, M., 1976, *Indian J. Exper. Biol.*, v. 14 (2), 188-189
 Litomosoides carinii-infected albino rats, significantly lower agglutinin titers to sheep erythrocytes
- Immunological unresponsiveness**
 Sizoo, W.; and Wolvius, G. G., 1976, *Nederl. Tijdschr. Geneesk.*, v. 120 (10), 418-424
 Pneumocystis carinii pneumonia in persons being treated with cytostatic agents because of malignant disease, clinical aspects, case reviews: Netherlands
- Immunological unresponsiveness**
 Sless, F.; et al., 1975, *J. Protozool.*, v. 22 (3), 56A-57A [Abstract]
 Trypanosoma brucei, mice treated with cyclophosphamide 2 days after infection developed high non-relapsing parasitaemia, mice treated 3 days before infection developed significantly lower parasitaemia than controls apparently due to increase in delayed hypersensitivity
- Immunological unresponsiveness**
 Soifer, F. K., 1976, *Vet. Med. and Small Animal Clin.*, v. 71 (4), 484, 486
 Dirofilaria immitis, cat, also positive for feline leukemia virus, possible depression of immune response mechanism: Houston area, Texas
- Immunological unresponsiveness**
 Soothill, J. F.; Smith, M. D.; and Morgan, A. G., 1975, *Symposia Brit. Soc. Parasitol.*, v. 13, 59-68
 association of parasites with nephrotic syndrome, genetically and environmentally determined host variation may be the immunodeficiency underlying proneness to chronic soluble complex disease, extensive review with emphasis on Schistosoma spp., Plasmodium malariae, and some preliminary experiments with Trypanosoma brucei in mice
- Immunological unresponsiveness**
 Srivastava, P. S.; and Sharma, N. N., 1975, *Indian J. Animal Research*, v. 9 (1), 8-10
 Theileria annulata premeure calves, oral administration of prednisolone, immunosuppressive effect, clinical relapses; need for caution in use of corticosteroids in enzootic areas; relapse induction useful for detection of carriers

Immunological unresponsiveness

Stadtsbaeder, S.; and Nguyen, B. T., 1977, *Ann. Immunol.*, v. 128C (1-2), 149-150
Toxoplasma gondii, susceptibility of nude mice to infection was same as controls, vaccination of nude mice conferred incomplete immunity

Immunological unresponsiveness

Stahl, W.; et al., 1976, *Exper. Parasitol.*, v. 39 (1), 135-142
Toxoplasma gondii, disease patterns in methotrexate-treated mice, examination of several time- and dose-dependent drug regimens, immunosuppressive effect when administered early in infection, potential use as experimental model for clinical toxoplasmosis

Immunological unresponsiveness

Starzl, T.; et al., 1973, *N. England J. Med.*, v. 289 (2), 82-84
Pneumocystis carinii, interstitial plasma cell pneumonia contributing factor in death of child who had undergone liver transplant 3 years previously and who was subsequently treated with immunosuppressive drugs: Denver

Immunological unresponsiveness

Stewart, S. J.; et al., 1976, *Exper. Parasitol.*, v. 40 (3), 373-379
Polyplax serrata, mice, effects of limb disability and consequent inability to groom on lousiness: failure to induce immune tolerance after neonatal exposure

Immunological unresponsiveness

Stockdale, P. H. G.; and Niilo, L., 1976, *Canad. Vet. J.*, v. 17 (2), 35-37
Eimeria zuernii, production of bovine coccidiosis, treatment with dexamethasone enhances reproduction by parasite, produces acute disease rather than mild infection, possibly lowers host resistance

Immunological unresponsiveness

Strickland, G. T.; and Sayles, P. C., 1977, *Infect. and Immun.*, v. 15 (1), 184-190
Toxoplasma gondii, mice, depressed antibody responses to thymus-dependent antigen (sheep erythrocytes), results show that immunodepression associated with *Toxoplasma* infection is complicated and they provide no definitive explanation for the mechanism

Immunological unresponsiveness

Sutton, R. J., 1976, *Research Vet. Sc.*, v. 21 (3), 354-355
Taenia ovis, sheep, corticosteroids increasing number of cysticerci, possible method of obtaining sufficient viable cysticerci for research

Immunological unresponsiveness

Szeri, I.; and Csoka, R., 1976, *Acta Microbiol. Acad. Scient. Hungar.*, v. 23 (3), 235-237
Toxoplasma gondii, acute infections in mice (exper.), spleen, thymus and lymphocyte changes

Immunological unresponsiveness

Tabel, H.; Losos, G. J.; and Maxie, M. G., 1977, *Canad. Fed. Biol. Soc.*, Programme and Proc. 20. Ann. Meet., v. 20, 118 [Abstract]
Trypanosoma vivax, T. congolense, cattle, determination of hemolytic complement activity and complement component C3 levels; impairment of complement system perhaps related to immunosuppression and susceptibility to secondary infection

Immunological unresponsiveness

Tanabe, K.; et al., 1977, *Exper. Parasitol.*, v. 43 (1), 143-152
Plasmodium berghiei, mice, suppressed response of antibody-forming cells

Immunological unresponsiveness

Tanaka, H.; et al., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (1), 19-26
Litomosoides carinii in *Sigmodon hispidus* (exper.), suppression of microfilaricidal activity of diethylcarbamazine by anti-lymphocyte and anti-thymocyte serum establishes role of lymphocytes in mechanism of drug action

Immunological unresponsiveness

Tarzaali, A.; Viens, P.; and Quevillon, M., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (3), 520-524
Plasmodium yoelii-infected mice, depressed capacity to build up immune response to diphtheria vaccine and tetanus toxin, immunodepression overcome by Freund's adjuvant or pertussis bacilli, results suggest that diphtheria and tetanus vaccine should be given in association with pertussis vaccine in malaria endemic areas

Immunological unresponsiveness

Terry, R. J.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (2), 263 [Abstract]
 trypanosomiasis, hypothesis to explain paradox of heightened IgM production and immunosuppression

Immunological unresponsiveness

Theologides, A.; and Lee, J. C., 1970, *Minnesota Med.*, v. 53 (6), 615-619
 concomitant systemic *Toxoplasma gondii*, *Pneumocystis carinii* pneumonitis and cytomegalic inclusion disease in woman undergoing steroid therapy for chronic leukemia, case report: Minnesota

Immunological unresponsiveness

Theologides, A.; Pflueger, O. H., jr.; and Kennedy, B. J., 1969, *Minnesota Med.*, v. 52 (5), 737-741
Pneumocystis carinii pneumonitis and *Toxoplasma gondii* of brain and myocardium in man being treated with steroids for chronic leukemia, case report: Minnesota

Immunological unresponsiveness

de la Torre Rendon, F. E.; and Gorraez de la Torre, M. T., 1974, *Patologia*, v. 12 (1), 15-39
Toxoplasma gondii encephalitis with central nervous system lymphomatous infiltrates in young girl being treated with immunosuppressive drugs for Hodgkin's disease, diagnosis at postmortem examination, case report, extensive bibliography: Mexico

Immunological unresponsiveness

Toshkov, A.; et al., 1977, Dokl. Bolgar. Akad. Nauk, v. 30 (6), 895-896

Trichinella spiralis-infected rats followed by infection with Erysipelothrix rhusiopathiae, effect of ACTH on defence mechanisms is counteracted by T. spiralis (inhibition of non-specific protective factors)

Immunological unresponsiveness

Urquhart, G. M.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (4), 528-535

Trypanosoma brucei-infected rats, failure of humoral and immediate-type responses to superimposed Nippostrongylus brasiliensis infection; T. brucei-infected mice, cell-mediated immunity as measured by oxazolone sensitization still occurred to significant extent although less than in uninfected mice

Immunological unresponsiveness

Vallat, M.; et al., 1976, Nouv. Presse Med., v. 5 (38), 2543-2544 [Letter]

Toxoplasma gondii, 2 case reports of acquired toxoplasmosis with ocular symptoms in women suffering from Hodgkin's disease, implications for defective immunologic responses: France

Immunological unresponsiveness

Veress, B.; et al., 1977, Immunology, v. 33 (5), 605-610

human visceral leishmaniasis, 20 fatal cases, histological appearances of spleen and lymph nodes were suggestive of profound disturbance in cell-mediated immunity, depletion of small lymphocytes in thymus-dependent areas accompanied by abundance of parasite-containing histiocytes and hyperplasia of plasma cells

Immunological unresponsiveness

Verster, A., 1971, Onderstepoort J. Vet. Research, v. 38 (1), 63-64

Taenia solium in Mesocricetus auratus (exper.), worms developed to maturity after suppression of host immune system with methyl prednisolone acetate, addition of chopped beef to diet had little effect on host susceptibility; similarly treated hamsters were less susceptible to T. saginata

Immunological unresponsiveness

Vilches, A. M.; et al., 1973, Ztschr. Tropenmed. u. Parasitol., v. 24 (3), 279-284

Trypanosoma cruzi, mice, effect of heterologous anti-thymocyte serum upon course of infection, shorter survival time and higher parasitemia, no change in agglutination antibody titers, impaired resistance probably in detrimental effect of ATS upon cell-mediated immunity

Immunological unresponsiveness

Vilde, J.-L., 1976, Path. Biol., v. 24 (2), 133-139

human parasitic diseases in patients receiving immunosuppressive therapy, pathophysiology, decrease in cellular immunity as factor, brief review

Immunological unresponsiveness

Voller, A., 1975, Symposia Brit. Soc. Parasitol., v. 13, 69-84

immunopathology of malaria, extensive review: immunosuppression and auto-immunity; tropical splenomegaly syndrome; nephrotic syndrome

Immunological unresponsiveness

Wagner, G. G.; et al., 1975, Research Vet. Sc., v. 19 (2), 209-211

Theileria parva, diminished antibody response to rinderpest vaccination in cattle undergoing severe East Coast fever reactions

Immunological unresponsiveness

Wakelin, D.; and Selby, G. R., 1974, Immunology, v. 26 (1), 1-10

Trichuris muris, mice, induction of immunological tolerance by treatment with cortisone

Immunological unresponsiveness

Wakelin, D.; and Selby, G. R., 1976, Parasitology, v. 72 (1), 41-50

Trichuris muris, immune expulsion from resistant mice, suppression by irradiation, attempts to restore by transfer of mesenteric lymph node cells, bone marrow, or immune serum, results confirm involvement of both antibody-mediated and lymphoid cell-mediated phases in immune expulsion

Immunological unresponsiveness

Wakelin, D.; and Wilson, M. M., 1977, Parasitology, v. 74 (3), 225-234

Trichinella spiralis, mice, inhibition of worm expulsion by host irradiation, attempts at reconstitution of immune response gave evidence for involvement of bone marrow-derived cell population in immune expulsion

Immunological unresponsiveness

Walzer, P. D.; et al., 1976, National Cancer Inst. Monograph (43), 55-63

Pneumocystis carinii pneumonia, analysis of 194 confirmed cases in United States over 3-year period, diagnosis by biopsy or needle aspiration of lung, pentamidine therapy effective but frequently caused impaired renal function when given in conjunction with nephrotoxic agents, occurrence almost exclusively in immunosuppressed host with serious underlying disease

Immunological unresponsiveness

Walzer, P. D.; et al., 1976, National Cancer Inst. Monograph (43), 65-74

Pneumocystis carinii, survey of 51 cases over 3-year period in children under 5 years of age, association with primary immune deficiency diseases in 25 cases, striking occurrence in families, defects in both humoral and cellular immunity appear to be operative

Immunological unresponsiveness

Walzer, P. D.; et al., 1977, Science (4229), v. 197, 177-179

Pneumocystis carinii in congenitally athymic (nude) mice as a new experimental model, experimental infection with both human- and rat-derived parasites produced both by intrapulmonary injection of lung homogenate containing parasites and by environmental transmission

Immunological unresponsiveness

Warren, H. S.; and Weidanz, W. P., 1976, European J. Immunol., v. 6 (11), 816-819

in vitro response of spleen cells from Plasmodium yoelii-infected mice to horse erythrocytes is depressed, concluded that a splenic adherent cell (probably the macrophage) is functionally defective as an accessory cell

Immunological unresponsiveness

Warren, K. S.; et al., 1974, *J. Immunol.*, v. 112 (3), 996-1007

Schistosoma mansoni, mice, cholera toxin profoundly suppressed cell-mediated immunologic reactivity (dermal footpad swelling to soluble egg antigens, granuloma formation around eggs, production of macrophage migration inhibition factor) and ameliorated portal hypertension and esophageal varices in hepatosplenic schistosomiasis

Immunological unresponsiveness

Watanabe, N.; et al., 1977, *J. Immunol.*, v. 118 (2), 485-488

Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, expression of Ly-1 antigen on helper and non-specific suppressor T cells

Immunological unresponsiveness

Watanabe, N.; Kojima, S.; and Ovary, Z., 1977, *J. Immunol.*, v. 118 (1), 251-255

Nippostrongylus brasiliensis, mice, tolerizing effect of DNP-Ficoll on IgE antibody production

Immunological unresponsiveness

Weber, W. R.; Askin, F. B.; and Dehner, L. P., 1977, *Am. J. Clin. Pathol.*, v. 67 (1), 11-19

Pneumocystis carinii pneumonia in humans, histopathology of typical and atypical features found on lung biopsy, importance of differential diagnosis especially in immunologically compromised patients

Immunological unresponsiveness

Webster, L. T., jr.; et al., 1975, *N. England J. Med.*, v. 292 (22), 1144-1147

Schistosoma haematobium, *S. mansoni*, niridazole as suppressant of delayed hypersensitivity in schistosome-infected persons, no effect on immediate skin test responses; potential as immunosuppressive agent for other medical conditions

Immunological unresponsiveness

Wedderburn, N.; and Dracott, B. N., 1977, *Clin. and Exper. Immunol.*, v. 28 (1), 130-137

mice with acute and chronic malaria, suppression of immune response to type III pneumococcal polysaccharide

Immunological unresponsiveness

Weidanz, W. P.; and Rank, R. G., 1975, *Proc. Soc. Exper. Biol. and Med.*, v. 148 (3), 725-728

Plasmodium gallinaceum, chickens (exper.), immunosuppressive effects of infection

Immunological unresponsiveness

Wells, R. A.; Diggs, C. L.; and Phillips, S. M., 1977, *J. Immunol.*, v. 118 (2), 472-477

Plasmodium berghei, mice, general immunosuppression induced by cyclophosphamide alone and specific immunosuppression induced by cyclophosphamide in combination with antigen

Immunological unresponsiveness

Whisnant, J. K.; and Buckley, R. H., 1976, *National Cancer Inst. Monograph* (43), 211-217

Pneumocystis carinii pneumonia, successful pyrimethamine-sulfadiazine therapy in infants with X-linked immunodeficiency with hyper-IgM

Immunological unresponsiveness

Wikel, S. K.; and Allen, J. R., 1976, *Immunology*, v. 30 (4), 479-484

Dermacentor andersoni, guinea pigs, cyclophosphamide treatment, blockage of acquisition of resistance, partial blockage of expression of resistance, evidence of humoral component to resistance mechanism in addition to previously established cell-mediated component

Immunological unresponsiveness

Wilkins, H. A.; and Brown, J., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (1), 59-66

Schistosoma haematobium in heavily infected population, decreased response rate in delayed hypersensitivity reactions with depressed response of lymphocytes to phytohaemagglutinin, increased IgG and IgM and presence of rheumatoid factor; concluded that chronic schistosomiasis can lead to state of partial immunosuppression: The Gambia

Immunological unresponsiveness

Williams, D. M.; Krick, J. A.; and Remington, J. S., 1976, *Am. Rev. Resp. Dis.*, v. 114 (3), 593-627

parasitic pulmonary infections in the compromised host, immunopathologic aspects, clinical manifestations, diagnosis and treatment, review

Immunological unresponsiveness

Wolf, R. E., 1976, *J. Parasitol.*, v. 62 (2), 209-214

Leishmania tropica *yotvata*, *Macaca mulatta* as possible simian model of human disease, primary, secondary, and tertiary infection, clinical resistance, cellular- and humoral-immune responses, effects of antilymphocyte globulin therapy, results quantitatively and qualitatively different from those in humans

Immunological unresponsiveness

Wolf, R. E., 1977, *Clin. Immunol. and Immunopathol.*, v. 2 (3), 381-394

Babesia microti, effects of antilymphocyte serum and splenectomy on resistance to infection in hamsters, results suggest that although cellular immunity is major factor in host resistance humoral antibody may modify parasitemia and thus give some protection

Immunological unresponsiveness

Wolff, L. J.; et al., 1977, *Pediatrics*, *Am. Acad. Pediat.*, v. 60 (1), 41-45

Pneumocystis carinii as cause of interstitial pneumonia in immunocompromised children, diagnosis by open lung biopsy, statistics of clinical cases

Immunological unresponsiveness

Wong, M. M., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (6), 479-490

Dirofilaria immitis in normal and immunosuppressed *Macaca* spp., histopathology, W.B.C. and eosinophil counts, radiological examination, serological examination by IFA test, recovery of adult worms only in immunosuppressed hosts indicates that host susceptibility rather than parasite infectivity was the factor concerned

Immunological unresponsiveness

Wong, M. M., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 88-93

Dirofilaria repens, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered in 10 of 13 but microfilariaemia seen only in prednisolone-treated animals, host responses (eosinophilia and filarial antibodies)

Immunological unresponsiveness

Wong, M. M.; and Lim, K. C., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 94-98

Dirofilaria tenuis, healthy and immunosuppressed macaques (exper.), larvae and adult worms recovered from 7 of 11 but microfilariaemia seen only in a prednisolone-treated animal, host responses (eosinophilia and filarial antibodies)

Immunological unresponsiveness

Wylter, D. J.; and Brown, J., 1977, *Clin. and Exper. Immunol.*, v. 29 (3), 401-407

Plasmodium falciparum, malaria antigen-specific T-cell responsiveness not abrogated during infection, need for further work to identify basis of immunosuppression in malarial infection; possibility of acquiring sensitized T cells without experiencing clinically apparent infections

Immunological unresponsiveness

Young, L. S.; and Lau, W. K., 1977, *N. England J. Med.*, v. 296 (1), 48 [Letter]

Pneumocystis carinii pneumonia in immunologically compromised patients, recommendations and suggestions for co-trimoxazole therapy

Immunological unresponsiveness

Zuckerman, A., 1977, *Exper. Parasitol.*, v. 42 (2), 374-446

Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

Immunopathology

Annable, C. R.; and Ward, P. A., 1974, *J. Immunol.*, v. 112 (1), 1-8

Babesia rodhaini, rats, presence of proliferative glomerulitis, this renal complication is associated with glomerular deposits of IgG and third component of complement in pattern diagnostic for soluble immune complex-induced nephritis

Immunopathology

Assoku, R. K. G., 1977, *Canad. Fed. Biol. Soc., Programme and Proc. 20. Ann. Meet.*, v. 20, 118 [Abstract]

soluble *Trypanosoma evansi* antigen produced haemolytic anemia, rats, immunologically-mediated mechanism may be responsible for development of anemia

Immunopathology

Barsoum, R. S.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (5), 387-391

human hepatosplenic schistosomiasis with renal involvement and associated renal salmonellosis, possible relationships in pathogenesis of renal lesions

Immunopathology

Belehu, A.; and Turk, J. L., 1976, *Infect. and Immun.*, v. 13 (4), 1235-1241

Leishmani enriettii, establishment of self-healing type of cutaneous leishmaniasis in hamsters, course of infection, immunopathological response, useful model

Immunopathology

Boonpucknavig, S.; et al., 1976, *J. Nat. Research Council Thailand*, v. 8 (1), 51-66

Plasmodium berghei, mice, immune complex nephritis, clinical, histopathological and immunofluorescent studies

Immunopathology

Boonpucknavig, S.; et al., 1976, *J. Trop. Med. and Hyg.*, v. 79 (6), 116-119

serum soluble malaria antigen probably responsible for soluble immune complex causing glomerulonephritis in *Plasmodium berghei* infected mice

Immunopathology

Boreham, P. F. L.; and Wright, I. G., 1976, *Brit. J. Pharmacol.*, v. 58 (1), 137-139

hypotension in rabbits infected with *Trypanosoma brucei* probably result of immune complex formation of trypanosomes with antibody

Immunopathology

Boreham, P. F. L.; and Wright, I. G., 1976, *Parasitology*, v. 73 (2), xxxi [Abstract]

Trypanosoma brucei, rabbits, hypotension, possibly caused by trypanosome-antibody complexes and mediated by kallikrein

Immunopathology

Boros, D. L., 1976, *Ann. N. York Acad. Sc.*, v. 278, 36-46

Schistosoma mansoni, granuloma formation etiology, cell-mediated immunity aspects, review

Immunopathology

Boros, D. L.; Pelley, R. P.; and Warren, K. S., 1975, *J. Immunol.*, v. 114 (5), 1437-1441

Schistosoma mansoni, mice, spontaneous modulation of granulomatous hypersensitivity, concomitant rise in circulating antibody levels and fall in spleen cell responsiveness to antigen

Immunopathology

Boros, D. L.; Tomford, R.; and Warren, K. S., 1977, *J. Immunol.*, v. 118 (1), 373-376

Schistosoma mansoni, induction of granulomatous and elicitation of cutaneous sensitivity by partially purified soluble egg antigens

- Immunopathology
Boros, D. L.; and Warren, K. S., 1973, *Immunology*, v. 24 (3), 511-529
Schistosoma mansoni, model for study of granulomatous inflammation employing bentonite particles coated with soluble antigens and injected i.v. into micro-vasculature of sensitized mice
- Immunopathology
de Brito, T.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (1), 9-18
light, immunofluorescent and electron microscopic study of pathogenetic mechanism of glomerular lesions found in human leishmaniasis, immune complexes trapped within glomerular capillaries
- Immunopathology
Bryceson, A. D. M., 1975, *Symposia Brit. Soc. Parasitol.*, v. 13, 85-100
mechanisms of disease in leishmaniasis, extensive review with some previously unpublished results: host-parasite specificity; prevention or evasion of immune response; role of immune response in production of disease; healing; immunity to reinfection
- Immunopathology
Bryceson, A. D. M., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 397-399
Onchocerca volvulus in humans, evidence that host immune response underlies pathogenesis of infection and that variations in responses contribute to geographical differences in disease patterns, review
- Immunopathology
Bryceson, A. D. M.; et al., 1976, *Clin. and Exper. Immunol.*, v. 24 (1), 168-176
Onchocerca volvulus, antigenic diversity among worms from one village in Nigeria, consistent differences in worm antigen patterns and antibody response with worms originating from forest vs. savanna zones of United Cameroon Republic, relevance of findings to pathology and prevention of onchocerciasis
- Immunopathology
Brzosko, W. J.; et al., 1976, *National Cancer Inst. Monograph* (43), 163-169
Pneumocystis carinii, infants, immunofluorescence and immunoelectron microscopic study of tissue, antibodies are essential in elimination of P. carinii through their opsonization of the organisms, disintegration of P. carinii conglomerates subsequent to binding of complement to immune complexes preceded their phagocytosis, replication of P. carinii at rate leading to clinical symptoms is due to impaired and delayed synthesis both of specific antibodies and of complement
- Immunopathology
Byram, J. E.; and von Lichtenberg, F., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (5, part 1), 944-956
Schistosoma mansoni, schistosome egg-induced lesions in nude mice compared with heterozygous controls, nude mice lacked hypersensitivity granulomas and failed to sequester toxic egg products which resulted in zonal hepatocellular damage
- Immunopathology
Capron, A.; et al., 1977, *European J. Immunol.*, v. 7 (5), 315-322
Schistosoma mansoni, rats, Ig-E immune complex-mediated macrophage cytotoxicity against Schistosomula, new mechanism of macrophage activation could play role in immune effector mechanisms against this parasite
- Immunopathology
Chapman, W. E.; and Ward, P. A., 1976, *J. Immunol.*, v. 116 (5), 1284-1288
Babesia rodhaini-infected rats, metabolism of third component of complement and IgG, development of hypocomplementemia and immune complex nephritis
- Immunopathology
Clarkson, M. J., 1976, *Pathophysiol. Parasit. Infect.*, 171-182
trypanosomiasis of man and animals, IgM levels, possible role of IgM in pathogenesis, mechanism of increased IgM
- Immunopathology
Cohen, J.; et al., 1977, *Brit. Med. J.* (6071), v. 1, 1258
Schistosoma mansoni in man, severe schistosomal myelopathy with paraplegia, sensory deficit and bladder dysfunction, poor response to nifedipine and prednisolone, evidence that spinal cord injury of immunologic nature mediated by response to worm and/or ova antigen: London (resident of Sudan)
- Immunopathology
Colley, D. G., 1975, *J. Immunol.*, v. 115 (1), 150-156
Schistosoma mansoni, mice, chronic primary infection, immune responses to soluble egg antigen (lymphocyte blastogenesis, production of lymphokine eosinophil stimulation promoter, haemagglutinating antibody, PGA antibodies, peripheral blood eosinophilia), relationship to anti-egg granulomatous response and pathogenesis of the disease
- Immunopathology
Corbeil, L. B.; et al., 1976, *Clin. Immunol. and Immunopathol.*, v. 6 (2), 165-173
canine visceral leishmaniasis with amyloidosis, immunopathological case report, inappropriate increase in humoral response and decrease in cell-mediated immunity: New York State; imported from Greece
- Immunopathology
Cossio, P. M.; et al., 1977, *Am. J. Path.* (418), v. 86 (3), 533-544
Trypanosoma cruzi, immunopathologic and morphologic studies of chagasic cardiopathy, deposits of immunoglobulins found at plasma membrane of working myocardial and endothelial cells, cytologic location of bound gammaglobulin coincident with specificity of circulating antibodies; findings suggest the possibility that lymphocyte-mediated immune response against heart tissue may participate in some of pathogenetic mechanisms of chronic cardiopathy

Immunopathology

Cox, K. O.; Howard, R. J.; and Mitchell, G. F., 1977, *Cellular Immunol.*, v. 32 (1), 223-227

Babesia rodhaini, increased numbers of plaque-forming cells secreting antibodies to modified mouse erythrocytes in spleens of heavily infected BALB/c-nu/+ mice but not in spleens of infected hypothyroid BALB/c-nu/nucleo mice, role of antierythrocyte autoantibodies in pathogenesis controversial

Immunopathology

Dargie, J. D.; et al., 1974, *Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol.* (Vienna, Austria, Sept. 18-20, 1973), 249-271
Fasciola hepatica, rats, cattle, sheep, active immunization, passive transfer of immunity by cells and serum, pathogenetic mechanisms underlying development of hepatic fibrosis

Immunopathology

Desmonts, G., 1976, *Mod. Problems Ophth.*, v. 16, 228-232
 toxoplasmic uveitis in humans, immunopathology studies suggest that ocular toxoplasmosis is generally congenital

Immunopathology

Fox, E. G.; and Schacher, J. F., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 523

Brugia pahangi-infected syngeneic laboratory rat-strains, permits differential studies of cellular response elicited by filarial infection and possible analysis of effect of histocompatibility type on immunopathologic picture of infection in man

Immunopathology

Garcia, E. G., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 282-288
Schistosoma japonicum, humans, pathophysiology, granuloma formation caused by delayed type hypersensitivity reaction to eggs in tissue

Immunopathology

George, C. R. P.; Parbtani, A.; and Cameron, J. S., 1976, *J. Path.*, v. 120 (4), 235-249
Plasmodium berghei yoelii in mouse model, nephropathy and immunologic responses before and after antimalarial, immunosuppressive and anticoagulant therapy

Immunopathology

Ghanem, M. H.; et al., 1975, *Egypt. J. Bilharz.*, v. 2 (2), 271-276
Schistosoma mansoni, measurement of immunoprecipitins to somatic antigens in patients with liver and spleen involvement; possible roles of cercariae, adult worms, and eggs in producing pathology with schistosome ova probably initiating autoimmune reactions

Immunopathology

Goodwin, L. G., 1976, *Pathophysiol. Parasit. Infect.*, 161-170
 protozoal infections, role of vasoactive amines and peptides in pathogenesis, review

Immunopathology

Greenwood, B. M.; and Brueton, M. J., 1974, *Clin. and Exper. Immunol.*, v. 18 (2), 267-272
Plasmodium falciparum, children, depression of serum complement, results suggest complement activation occurs predominantly via the classical pathway and may contribute to vascular damage

Immunopathology

Greenwood, B. M.; and Whittle, H. C., 1976, *Clin. and Exper. Immunol.*, v. 24 (1), 133-138
Trypanosoma brucei gambiense, humans, evidence that complement activation plays a role in pathogenesis of Gambian sleeping sickness: low levels of complement components C3, C4, and factor B in sera, high serum IgM levels, possible formation of large molecular weight IgM complexes, increase in serum C3 levels after melarsoprol treatment

Immunopathology

Grimaud, J. A.; Borojevic, R.; and El Badrawy, N., 1977, *Experientia*, v. 33 (8), 1078-1079
 chronic human schistosomiasis, IgG deposits identified in Disse's spaces of liver of patients with advanced Symmers' fibrosis, shows participation of immunological reactions to this pathological alteration

Immunopathology

Healey, M. C.; and Gaafar, S. M., 1977, *Vet. Parasitol.*, v. 3 (2), 107-119
Demodex canis, dogs, immunofluorescent demonstration and quantitation of mast cell-bound IgE, estimation of serum IgE inconclusive, possible role of atopic sensitization in pathogenesis of canine demodectic mange

Immunopathology

Hendrickse, R. G., 1975, *Paediat. Indonesiana*, v. 15 (3-4), 83-92
Plasmodium malariae in children as cause of immune complex nephritis probably involving an auto-immune process, treatment efforts still unsatisfactory

Immunopathology

Higashi, G. I.; et al., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (4), 713-714
Schistosoma mansoni, nephrotic syndrome complicated by chronic salmonellosis, studies suggest active role of *Salmonella* rather than schistosomiasis as cause of associated pathology

Immunopathology

Hillyer, G. V., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 432-436
Schistosoma japonicum, chimpanzees, presence of circulating antigens in serum between 6 and 9 weeks post-exposure with later clearance, these antigens cross-react with anti-serum against *S. mansoni*, persistence of these antigens could result in observed renal damage

Immunopathology

Hirsh, D. C.; et al., 1975, Am. J. Vet. Res., v. 36 (11), 1591-1595

Demodex canis, suppression of in vitro reactivity of peripheral lymphocytes to phytohemagglutinin by serum from dogs with generalized demodicosis, possible role of T-lymphocyte dysfunction in pathogenesis

Immunopathology

Hooshmand-Rad, P., 1976, Research Vet. Sc., v. 20 (3), 324-329

Theileria annulata, intact susceptible calves, premune calves following splenectomy, pathogenesis of anemia, role of erythrocytic forms and schizonts, involvement of auto-immune reaction is proposed

Immunopathology

Hoshino-Shimizu, S.; et al., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 492-496

Schistosoma mansoni, human, demonstration of schistosomal antigens in kidney infections, characterization of specific antigens and antibodies localized in kidney, evidence that renal injury is mediated through immune complex disease

Immunopathology

Houba, V., 1976, Pathophysiol Parasit. Infect., 221-232

immunopathological mechanisms in parasitic disease, review (immune complexes; complement; autoimmunity; cell-mediated reactions; immunodepression)

Immunopathology

Houba, V., 1977, Am. J. Trop. Med. and Hyg., v. 26 (6, Pt. 2), 233-239

immunopathology mechanisms in protozoal infections, workshop report: malaria (nephropathies, splenomegaly); African trypanosomiasis

Immunopathology

Houba, V.; et al., 1976, Clin. Immunol. and Immunopathol., v. 6 (1), 1-12

Plasmodium brasilianum, *P. malariae*, *P. falciparum*, humans, Aotus monkeys, increased binding of malarial antibodies with sera, faster disappearance of this antibody from circulation, and its increased deposition in renal glomeruli, serum complement levels during progress of infection, important role of *P. malariae* in pathogenesis of chronic progressive nephropathies occurring in malarial areas

Immunopathology

Houba, V.; Sturrock, R. F.; and Butterworth, A. E., 1977, Clin. and Exper. Immunol., v. 30 (3), 439-449

Schistosoma mansoni, kidney lesions at different stages of disease in *Papio anubis* infected with different doses of cercariae with special emphasis on identification of antigens involved

Immunopathology

Hsu, C.-K.; et al., 1976, Nature, London (5567), v. 262, 397-399

Schistosoma mansoni, immunopathology in athymic mice vs. normal heterozygous mice, investigations of necessity of T-cell participation in eosinophil response, IgE formation, granuloma formation, and lymphocyte responsiveness

Immunopathology

Hussein, H. S., 1976, Ztschr. Parasitenk., v. 50 (2), 103-108

Babesia hylomysci, mice, ⁵⁹Fe labelling of hemoglobin demonstrating parasite's preference for mature erythrocytes, direct destruction of erythrocytes as main cause of anemia and autoimmune reaction as probable factor

Immunopathology

Jarvinen, J. A.; and Dalmaso, A. P., 1977, Exper. Parasitol., v. 43 (1), 203-210

Trypanosoma musculi, mice, development of mild anemia, evidence indicating participation of immunological mechanism, erythrocytes had bound immunoglobulins and complement component 3, intravascular hemolysis by complement was not a mechanism of cell destruction

Immunopathology

Jenkins, G. C.; et al., 1974, Tr. Roy. Soc. Trop. Med. and Hyg., v. 68 (2), 154 [Abstract]

Trypanosoma brucei-infected rabbits, anemia associated with infection due to hemolytic mechanism either of immunologic or microangiopathic nature

Immunopathology

Jones, C. E., 1977, Exper. Parasitol., v. 42 (2), 261-273

Schistosoma japonicum, rabbits, investigation of possible role of immune complexes in renal pathology and hepatic fibrosis: serum cryogelatinification and cryoprecipitation phenomena; temporal aspects of anti-DNA response

Immunopathology

Jones, C. E.; et al., 1977, Exper. Parasitol., v. 42 (1), 221-234

Schistosoma japonicum, rabbits, circulating immune complexes, serum C1q and C3, semi-quantitative assessment, relationship to renal pathology and hepatic fibrosis

Immunopathology

Kamo, E., 1972, Med. J. Shinshu Univ., v. 17 (2), 37-55

pathogenesis of liver cirrhosis as an autoimmune disease in exper. *Schistosoma japonicum*-infected rabbits

Immunopathology

Kiselev, V. B., 1975, Med. J. Zambia, v. 9 (5), 125-127

discussion of secondary lesions of human nervous system resulting from infectious and toxic-allergic reactions caused by schistosomiasis, malaria and trypanosomiasis: Zambia

Immunopathology

Kobayashi, A.; Tizard, I. R.; and Woo, P. T. K., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (3), 401-406

Trypanosoma congolense, calves, anemia proved to be of immunological origin, antigen-antibody-complement complexes deposited on surface of erythrocytes results in their immune elimination and leads to clinical anemia

Immunopathology

Krettli, A. U.; Nussenzweig, V.; and Nussenzweig, R. S., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 34-41

Plasmodium berghei, mice, level of immune complex release activity from surface of lymphocytes, alternative complement pathway function, C3 levels in serum

Immunopathology

Lawrence, J. A., 1977, *J. South African Vet. Ass.*, v. 48 (2), 77-83

Schistosoma mattheei, cattle (nat. and exper.), chronic hepatic syndrome, considered to be of immunological origin involving a cell-mediated immune response, usually after repeated heavy infestation: Rhodesia

Immunopathology

Leenstra, F.; Elgersma, A.; and Ruitenbergh, E. J., 1977, *Trop. and Geogr. Med.*, v. 29 (2), 206 [Abstract]

Trichinella spiralis, *Hymenolepis diminuta*, infected congenitally athymic mice and their thymus-bearing heterozygous littermates (exper.), immunologic reactions shown to be dependent on immune status of host whereas non-specific histopathologic changes were thymus-independent

Immunopathology

Lewert, R. M., 1976, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 7 (2), 289-300

Schistosoma japonicum, humans, hypersensitivity, tolerance and immunopathology, current aspects, speculations

Immunopathology

von Lichtenberg, F., 1977, *Am. J. Trop. Med. and Hyg.*, v. 26 (6, Pt. 2), 79-87

schistosomiasis, human, experimental approaches to subject of immunopathogenesis, workshop report

Immunopathology

Lindsley, H. B.; Kysela, S.; and Steinberg, A. D., 1974, *J. Immunol.*, v. 113 (6), 1921-1927

Trypanosoma rhodesiense, *T. gambiense*, humans, development of antibodies to nucleic acids, possible pathophysiological relationship to renal disease remains to be determined

Immunopathology

McGhee, R. B., 1976, *Exper. Parasitol.*, v. 39 (1), 88-94

Plasmodium gallinaceum-infected immunoincompetent chicken embryos, changes in blood picture in response to injection of serum from hyperimmunized chickens, results suggest definite role of immunity in anemia accompanying malaria, failure to clarify question of autoimmunity

Immunopathology

Madwar, M. A.; and Voller, A., 1977, *Tropenmed. u. Parasitol.*, v. 28 (1), 57-62

Schistosoma haematobium and *S. mansoni* in humans, immunoserologic investigations indicate that both antibody and circulating antigen can be detected, relations with immune-complex nephritis and pathology of infections still unclear

Immunopathology

Mahmoud, A. A. F.; Cheever, A. W.; and Warren, K. S., 1975, *J. Infect. Dis.*, v. 131 (6), 634-642

Schistosoma mansoni in mice with streptozotocin-induced diabetes mellitus, no direct effect on parasite but profound effect on host reactivity, alleviation of clinical disease in acute stage probably related to generalized suppression of cellular hypersensitivity, exacerbation in chronic stage related to megalocytosis of hepatocytes

Immunopathology

Mahmoud, A. A. F.; and Woodruff, A. W., 1975, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 69 (2), 187-188

Schistosoma mansoni in mice (exper.), glomerular nephritis caused by immune complex deposits which contained complement

Immunopathology

Mansfield, J. M.; and Kreier, J. P., 1972, *Infect. and Immun.*, v. 5 (5), 648-656

Trypanosoma congolense, rabbits (exper.), complement-fixing and precipitating autoantibodies to normal allogeneic and autologous tissues, passive transfer of autoantibody to normal rabbits did not produce observable pathology, cell-mediated autoimmunity was not shown

Immunopathology

Mansfield, J. M.; and Kreier, J. P., 1972, *Infect. and Immun.*, v. 6 (1), 62-67

Trypanosoma congolense, rabbits (exper.), Arthus-type immediate hypersensitivity reactions demonstrated, no cell-mediated hypersensitivity reactions observed, role of immediate-type skin reaction in pathology of infection and possible use in diagnosis

Immunopathology

Mazaud, R.; Pelloux, H.; and Ferrus, R., 1974, *Medecine Trop.*, v. 34 (1), 7-24

Brugia malayi, *Fasciola hepatica*, humans, cardiovascular complications resulting from cell-mediated immunity

Immunopathology

Miatello, V. R.; Zanetti, N. L.; and Miatello, V. R., hijo, 1974, *Medicina*, Buenos Aires, v. 34 (5), 532-538

excision of echinococcal pulmonary cyst in young girl resulted in disappearance of concurrent nephrotic syndrome, evidence supports immunological process of immune complexes or autoantibodies as link between two disease processes

Immunopathology

Murray, M.; et al., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 276-277 [Abstract]
 Trypanosoma brucei, pathology in rats: progressive alteration in immunological apparatus leading to immunosuppressed state to other antigens; anemia; specific organ damage and failure

Immunopathology

Murray, M.; et al., 1974, Research Vet. Sc., v. 16 (1), 77-84
 Trypanosoma brucei, 3 aspects of pathology in rats: progressive alteration in immunological apparatus of lymph nodes, spleen, and thymus, increase in activity of mononuclear phagocytic system; haemopoietic system changes, haemolytic anemia; specific organ damage (heart most markedly affected)

Immunopathology

Murray, M.; Lambert, P. H.; and Morrison, W. I., 1975, Medecine et Malad. Infect., v. 5 (12), special no., 638-641
 Trypanosoma brucei-infected mice develop proliferative immune complex glomerulonephritis

Immunopathology

Murray, M.; and Rushton, B., 1975, Symposia Brit. Soc. Parasitol., v. 13, 27-41
 Fasciola hepatica, cattle, sheep, hepatic fibrosis, types, time of onset, possible mechanisms underlying genesis, factors affecting deposition (possibly immunological mechanism), importance as mechanism of host resistance

Immunopathology

Murray, P. K.; et al., 1974, Proc. 6. Internat. Conf. World Ass. Adv. Vet. Parasitol. (Vienna, Austria, Sept. 18-20, 1973), 133-150
 Trypanosoma brucei in rodents, pathology of immune system, role of mononuclear phagocytic system in immunosuppression, humoral and T cell responsiveness, effect of infection on Nippostrongylus brasiliensis infection, recovery of immune response after trypanocidal therapy, review

Immunopathology

Musoke, A. J.; and Barbet, A. F., 1977, Nature, London (5636), v. 270, 438-440
 Trypanosoma brucei, direct activation of human complement via classical pathway by isolated variant-specific surface antigen of parasite, possible role in pathogenesis

Immunopathology

Musoke, A. J.; Cox, H. W.; and Williams, J. F., 1977, J. Parasitol., v. 63 (6), 1081-1088
 Plasmodium chabaudi, rats, antigens and antibodies found associated with anemia, splenomegaly, and glomerulonephritis, suggested that soluble complexes of parasite antigen and antibody may have been causal in this syndrome

Immunopathology

Natali, P. G.; and Cioli, D., 1976, European J. Immunol., v. 6 (5), 359-364
 Schistosoma mansoni-infected mice, immune complex nephritis, incidence of renal involvement correlated with duration and intensity of infection and appeared to be decreased in unisexual infections

Immunopathology

Ngu, J. L.; and Blackett, K., 1976, Trop. and Geogr. Med., v. 28 (2), 111-120
 Onchocerc[a] volvulus in humans, immunologic studies attempting to delineate role of humoral and cellular immune responses in the heterogeneity of onchocercal lesions

Immunopathology

Opuni, E. K.; and Muller, R. L., 1975, J. Helminth., v. 49 (2), 121-127
 Spirometra theileri, experimental plerocercoid infections of Macaca mulatta and mice, histopathology and immunopathology

Immunopathology

Ottesen, E. A.; Weller, P. F.; and Heck, L., 1977, Immunology, v. 33 (3), 413-421
 Wuchereria bancrofti, human, antigen-specific cellular immune unresponsiveness, unchanged 2 weeks after diethylcarbamazine treatment, this immunologic deficit may be of fundamental importance in pathogenesis of filarial disease: Mauke, Cook Islands

Immunopathology

Pelley, R. P.; Ruffier, J. J.; and Warren, K. S., 1976, Infect. and Immun., v. 13 (4), 1176-1183
 Schistosoma mansoni, mice, suppressive effect of infection at various time periods on in vitro responses of spleen and lymph node cells to T cell mitogens (phytohemagglutinin and concanavalin A), findings consistent with existence of suppressor T cells in chronic schistosomiasis, possible role in spontaneous modulation of immunopathology

Immunopathology

Poels, L. G.; et al., 1977, Exper. Parasitol., v. 43 (1), 255-267
 Plasmodium berghei, formation of immune complexes and their role in nephropathies in infected mice in comparison with chloroquine-cured and hyperimmune mice, comparative study on nude mouse model, immune complexes deposited in renal glomeruli of acutely infected and hyperimmune mice but not in glomeruli of infected nude mice, pathological ultrastructural alterations found in glomeruli of first two groups

Immunopathology

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Immunopathology

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Immunopathology

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Immunopathology

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Immunopathology

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Immunopathology

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Plasmodium falciparum, man, blood histamine changes and correlation with severity of complications occurring during infection, possible release of histamine through activation of complement system and immune destruction of platelets

Immunopathology

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Trypanosoma brucei gambiense, chronically infected *Microtus montanus*, elevated serum and hepatic tyrosine aminotransferase, high serum levels may result from lysis of parasites (possibly due to agglutination by antibody) containing high levels of enzyme, implications for catecholamine metabolism and consequently for pathologic behavioral syndrome

Immunopathology

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Immunopathology

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Immunopathology

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 chronic *Trypanosoma cruzi*-infected humans, positive leukocyte migration inhibition test with heart antigens, results suggest cell-mediated immune response against heart tissue could participate in mechanism of myocardial damage in Chagas' disease

Immunopathology

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Immunopathology

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 schistosomiasis, multiplicity of immunopathology, review

Immunopathology

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 schistosomiasis, immunopathogenesis, modulation of granulomatous inflammation and amelioration of disease, mechanisms, workshop report

Immunopathology

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Immunopathology

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Schistosoma mansoni, mice, effects of curative treatment on resistance to reinfection and on granulomatous hypersensitivity following reinfection, results suggest that both immunity and modulation of immunopathology are residual after curative treatment

Immunopathology

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Myobia musculi-infested *Mus musculus* in breeding colony, histopathology of skin lesions probably allergic in character, exacerbation of lesions following reinfection of sensitized mice, treatment with dichlorvos-impregnated plastic strips abolished lesions and improved breeding performance

Immunopathology

Weise, M.; and Voller, A., 1975, *Tropenmed. und Parasitol.*, v. 26 (4), 390-394

Plasmodium brasilianum, proteinuria and other pathologic changes in urinary tract of *Aotus trivirgatus* (exper.), possible use of *Aotus-P. brasilianum* system to study renal immunopathology of human malaria

Immunopathology

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Immunopathology

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Immunopathology

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mechanisms involved in anemia associated with infection (*Schistosomiasis*, kala-azar, malaria, trypanosomiasis) and splenomegaly in tropics, complement activation leading to hemolysis and splenomegaly due to erythrophagocytosis, review

Immunopathology

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Immunopathology

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Plasmodium, immunology, extensive review: immunodiagnosis and seroepidemiology; immunopathology; antigenic analysis; host responses; immunoglobulins; cell-mediated reactions

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Immunotolerance. See Immunological unresponsiveness.

Implantation. See Transplantation.

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health and nutrition survey of men doing heavy manual labor, mild anemia in group but hookworm and other parasites apparently non-contributory: Dumka region in Bihar and Garhwal, India
(hookworm; roundworm; *Entamoeba histolytica* *H[ymenolepis] nana*; *Giardia*; *Trichuris trichiura*)

India

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gastrointestinal parasites of cattle: *Orissa*, India
(*Paramphistomum cervi*; *Cotylophoron cotylophorum*; *Gastrothylax crumenifer*; *Calicophoron calicophorum*; *Fischoederius elongatus*; *Fischoederius cobboldi*; *Carmyrius spatiosus*; *Carmyrius gregarius*; *Gonglonema verrucosum*; *Haemonchus contortus*; *Mecistocirrus digitatus*; *Ostertagia ostertagi*; *Trichostrongylus axei*; *T. colubriformis*; *Nematodirus spathiger*; *Neoascaris vitulorum*; *Bunostomum phlebotomum*; *Strongyloides papillosus*; *Moniezia expansa*; *Moniezia benedeni*; *Avitellina* spp.; *Trichuris ovis*; *Trichuris globulosa*; *Oesophagostomum radiatum*)
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parasite incidence, goats: Orissa
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(*Toxocara canis*; *Ancylostoma caninum*; *Strongyloides stercoralis*; *Dipylidium caninum*; *Heterodoxus longitarsus*; *Rhipicephalus sanguineus*; *Ctenocephalides felis*; *Sarcoptes scabiei*; *Demodex canis*)
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(*G. intestinalis*; *E. histolytica*; *A. lumbricoides*; *Tr. hominus*; *H. nana*; hookworm; *Tr. trichiura*; *E. vermicularis*)
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(*Argas persicus*; *Cnemidocoptes mutans*; *C. gallinae*; *Cytolichus nudus*; *Dermanyssus gallinae*; *Rivoltasia karamellakhieri*; *Ornithonyssus bursa*; *O. bacoti*)
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(*Fasciola gigantica*; *Gigantocotyle explanatum*; *Gastrothylax crumenifer*; *Fischoederius elongatus*; *Cotylophoron cotylophorum*; *Ceylonocotyle* sp.; *Carmyrius spatiosus*; *Olveria indica*; immature amphistomes; *Moniezia expansa*; *Stilesia globipunctata*; *Echinococcus granulosus*; *Cysticercus tenuicollis*; *Haemonchus contortus*; *Mecistocirrus digitatus*; *Bunostomum phlebotomum*; *Cooperia curticei*; *Neoascaris vitulorum*; *Trichuris discolor*; *Setaria labiato-papillosa*)
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[Checklist includes 388 bird species and contains both published and unpublished records. For records from specific hosts, see entries in Supplement 22, Part 7, Hosts.]

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Indonesia

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Indonesia

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Indonesia, Borneo

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(*Entamoeba histolytica*; *E. hartmanni*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Ascaris lumbricoides*; *Trichuris trichiura*; hookworm; *Plasmodium vivax*; *P. falciparum*; *Strongyloides stercoralis*; *Capillaria* sp.; *Echinostoma* sp.; *Hymenolepis diminuta*; *Trichomonas hominis*; *Enterobius vermicularis*)

Indonesia, Borneo

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prevalence survey of parasitic infections in humans: West Kalimantan (Borneo), Indonesia (*Plasmodium vivax*; *P. falciparum*; *Brugia malayi*; *Wuchereria bancrofti*; *Trichuris trichiura*; *Ascaris lumbricoides*; hookworm; *Entamoeba coli*; *E. histolytica*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Strongyloides stercoralis*; *Entamoeba hartmanni*; *Trichomonas hominis*; *Balantidium coli*; *Enterobius vermicularis*; *Hymenolepis nana*; *Echinostoma* sp.; physalopterid type-eggs; microcoeliid type-eggs; heterophyid type-eggs)

Indonesia, Borneo

Durfee, P. T.; et al., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (1), 42-47
Toxoplasma gondii, man and animals, sero-epidemiologic survey, consumption of undercooked goat meat appears to be significant source of infection: South Kalimantan (Borneo), Indonesia

Indonesia, Celebes

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survey for evidence of human intestinal parasites and malaria in Napu Valley, Sulawesi (*Entamoeba histolytica*; *E. hartmanni*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Ascaris lumbricoides*; *Trichuris trichiura*; hookworm; *Enterobius vermicularis*; *Schistosoma japonicum*; *Plasmodium falciparum*)

Indonesia, Celebes

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prevalence survey of human intestinal and blood parasites in Bada and Gimpu areas of Central Sulawesi, Indonesia (*Entamoeba histolytica*; *E. hartmanni*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Balantidium coli*; *Ascaris lumbricoides*; *Trichuris trichiura*; hookworm; *Enterobius vermicularis*; heterophyid sp.; *echinostome* sp.; *fasciolid* sp.; *Plasmodium falciparum*; *Brugia malayi*)

Indonesia, Celebes

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human intestinal and blood parasite prevalence survey: North Lore District, Central Sulawesi, Indonesia (*Entamoeba histolytica*; *E. coli*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Ascaris lumbricoides*; *Trichuris trichiura*; hookworm; *Schistosoma japonicum*; *Plasmodium falciparum*; *Brugia malayi*; *Entamoeba hartmanni*; *Trichomonas hominis*; *Enterobius vermicularis*; *Strongyloides stercoralis*; *Physaloptera* sp.; *Diphyllobothrium* sp.; *echinostome*; heterophyid species)

Indonesia, Celebes

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prevalence survey for human intestinal and blood parasites: Margolemo, Luwu Regency, South Sulawesi, Indonesia (*Ascaris lumbricoides*; *Trichuris trichiura*; hookworm; *Enterobius vermicularis*; *Hymenolepis diminuta*; *Entamoeba histolytica*; *E. hartmanni*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Plasmodium vivax*; *P. falciparum*; *P. malariae*)

Indonesia, Celebes

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Indonesia, Celebes

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Indonesia, Celebes

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Indonesia, Java

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prevalence survey for human intestinal parasites and malaria with cursory survey for serological evidence of amoebiasis and toxoplasmosis: Kresek, West Java, Indonesia (Ascaris lumbricoides; Trichuris trichiura; hookworm; Enterobius vermicularis; Strongyloides stercoralis; Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Giardia lamblia; Chilomastix mesnili; Plasmodium falciparum; P. vivax)

Indonesia, Java

Clarke, M. D.; et al., 1973, Southeast Asian J. Trop. Med. and Pub. Health, v. 4 (2), 195-201
human parasitological survey in Jogjakarta area of Central Java, Indonesia (Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Trichomonas hominis; Giardia lamblia; Chilomastix mesnili; Ascaris lumbricoides; Trichuris trichiura; hookworm; Enterobius vermicularis)

Indonesia, Java

Partono, F.; Purnomo; and Tangkilisan, A., 1974, Southeast Asian J. Trop. Med. and Pub. Health, v. 5 (2), 258-264
prevalence survey for human intestinal parasitic infections in different age and occupational groups and simultaneous clinical trial for efficacy of mebendazole as therapy for polyparasitism: Jakarta, Indonesia (Strongyloides stercoralis; Hymenolepis nana; Entamoeba coli; Giardia lamblia; Entamoeba histolytica; E. hartmanni; Endolimax nana; Iodamoeba buetschlii; Trichomonas hominis; Trichuris trichiura; Ascaris lumbricoides; Oxyuris vermicularis; hookworm)

Indonesia, Sumatra

Cross, J. H.; et al., 1976, J. Trop. Med. and Hyg., v. 79 (6), 123-131
human parasitologic survey in Northern Sumatra (Plasmodium vivax, P. falciparum, Entamoeba histolytica, E. hartmanni, E. coli, Endolimax nana, Iodamoeba buetschlii, Giardia lamblia, Chilomastix mesnili, Ascaris lumbricoides, Trichuris trichiura, hookworm, Enterobius vermicularis, Strongyloides stercoralis, Taenia sp., Echinostoma sp., fasciolid, microcoeliid, Toxoplasma gondii, Brugia malayi)

Indonesia, Sumatra

Daili, S.; et al., 1972, Paediat. Indonesiana, v. 12 (2), 87-91
parasitic survey of infants and children admitted to pediatric wards in Padang area, West Sumatra (Ascaris lumbricoides; Trichuris trichiura; Oxyuris vermicularis; Ankylostoma duodenale; Strongyloides stercoralis; Entamoeba histolytica; E. coli; Giardia lamblia; Iodamoeba buetschlii)

Indonesia, Sumatra

Stafford, E. E.; and Joeseof, A., 1976, Southeast Asian J. Trop. Med. and Pub. Health, v. 7 (4), 518-522
prevalence survey for human intestinal and blood parasites in 4 villages in Aceh (Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Giardia lamblia; Ascaris lumbricoides; Trichuris trichiura; hookworm; Enterobius vermicularis; Brugia malayi)

Infectivity. [See also Pathogenicity]

Infectivity

Ajayi, J. A., 1976, Parasitology, v. 72 (3), 335-343
8 ovine Eimeria spp., effects of temperature and Aureo-S-700 on sporulation, viability, and infectivity of oocysts

Infectivity

Altan, Y.; Heydorn, A. O.; and Janitschke, K., 1977, Berl. u. Munchen. Tierarztl. Wchenschr., v. 90 (22), 433-435
Toxoplasma oocysts, horses (exper.), infectivity limited

Infectivity

- Aminzhanov, M., 1975, *Uzbek. Biol. Zhurnal* (4), 48-50
Echinococcus granulosus, infectivity to dogs, length of infection, sex of parasites

Infectivity

- Anderson, R. M.; Whitfield, P. J.; and Mills, C. A., 1977, *J. Animal Ecol.*, v. 46 (2), 555-580
Transversotrema patialense, cercariae and adults, population dynamics under laboratory conditions: survival, effects of aging and density on infectivity, immigration-death experiments (measure of host resistance as factor)

Infectivity

- Armstrong, E., 1976, *Ztschr. Parasitenk.*, v. 50 (2), 161-165
Nosema kingi, fecal and transovarial transmission in *Drosophila willistonii*, infectivity to other hosts

Infectivity

- Avila, J. L.; et al., 1976, *Biochem. Soc. Tr.*, v. 4 (4), 680-681 [Abstract]
Trypanosoma cruzi, *Leishmania braziliensis*, mice, infectivity loss after in vitro exposure to polyenzymic 'PIGO' (peroxidase, iodide, glucose, type-II oxidase and oxygen)

Infectivity

- Bajwa, R. S.; and Gill, B. S., 1977, *Ann. Recherches Vet.*, v. 8 (2), 181-186
Eimeria tenella, progeny of irradiated oocysts, sporulation rate, pathogenicity, immunogenicity, reproductive potential, concluded that radiation effects are not transmissible to progeny

Infectivity

- Basch, P. F.; and DiConza, J. J., 1977, *J. Parasitol.*, v. 63 (2), 245-249
Schistosoma mansoni, in vitro development compared to in vivo, presence of living *Biomphalaria glabrata* cells indispensable for proper development, cultured cercariae were water-sensitive, gave no cercarial hüllen reaction, appeared to lack surface glycocalyx, and were not infective to mice or hamsters

Infectivity

- Becker, W.; and Lutz, W., 1976, *Ztschr. Parasitenk.*, v. 50 (1), 99-101
Schistosoma mansoni cercaria, action of salt solutions of various ion composition on swimming activity

Infectivity

- Berry, C. I.; et al., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 71 (4), 288-289 [Demonstration]
Schistosoma mattheei, sheep (exper.), reduced infectivity of cercariae after maintenance in a hamster colony apparently resulting in reduction of fecundity of worms

Infectivity

- Beveridge, I.; and Rickard, M. D., 1976, *Internat. J. Parasitol.*, v. 6 (1), 55-59
Taenia pisiformis in rabbits (exper.), growth and development of rostellar hooks, hook differentiation and size related to age of cysticerci, ability to resist effects of digestive enzymes in vitro, and ability to infect dogs, variability in hook sizes attributable to external influences suggests caution in use of hook lengths as taxonomic characters

Infectivity

- Bishop, J. P.; and Kuttler, K. L., 1974, *J. Protozool.*, v. 21 (5), 758-760
Babesia rodhaini, effect of irradiation on infectivity dependent upon irradiation dose, development of acquired resistance after inoculation of irradiated parasitized blood, mice

Infectivity

- Blankespoor, H. D., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (1), 44-50
Plagiorchis noblei, life cycle studies: egg (infectivity); cercaria (diel periodicity of emergence; seasonal periodicity; temperature effect on longevity and infectivity); metacercaria (infectivity); adults (location in definitive host; longevity; seasonal periodicity)

Infectivity

- Bonner, T. P.; and Buratt, M., 1976, *Internat. J. Parasitol.*, v. 6 (4), 289-294
Nippostrongylus brasiliensis, inhibition of development and infectivity by actinomycin-D, supports hypothesis that infection is dependent upon new gene expression, i.e., transcription

Infectivity

- Bosworth, W.; Sullivan, J. J.; and Chernin, E., 1976, *Am. J. Trop. Med. and Hyg.*, v. 25 (5), 700-703
Brugia pahangi, *B. malayi*, birds (exper.), viability and oral infectivity of third stage larvae kept in water or recovered from dead mosquitoes, rearward migration of *Brugia* from mosquito hosts, implications for naturally acquired infections

Infectivity

- Bray, R. S.; McCrae, A. W. R.; and Smalley, M. E., 1976, *Internat. J. Parasitol.*, v. 6 (5), 399-401
Anopheles gambiae fed on *Plasmodium falciparum*-infected Gambians once during day or once or twice during night, no overall difference in oocyst numbers in batches of mosquitoes fed during night as compared to daytime, apparent lack of circadian rhythm in infectivity of gametocytes

Infectivity

- Brink, L. H.; McLaren, D. J.; and Smithers, S. R., 1977, *Parasitology*, v. 74 (1), 73-86
Schistosoma mansoni, artificially transformed schistosomula and schistosomula recovered after cercarial penetration of isolated skin, comparison of ultrastructure, development, antigenic nature, viability in vivo and in vitro, infectivity

Infectivity

Brink, L. H.; McLaren, D. J.; and Smithers, S. R., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (4), 293 [Demonstration]
Schistosoma mansoni, antigenicity, ultra-structural morphology, development of surface membranes, growth in vitro and infectivity compared in 3 types of artificially prepared schistosomula

Infectivity

Budilova, M.; and Kulda, J., 1977, J. Protozool., v. 24 (4), 49A [Abstract]
Trichostrongylus axei, enhancement of virulence (infectivity + mortality) for mice by ferric ammonium citrate, indicates accessibility of iron in form utilizable by parasite as critical factor in infection

Infectivity

Burden, D. J.; and Hammett, N. C., 1976, Vet. Parasitol., v. 2 (3), 307-311
Trichostrongylus axei, comparison of infectivity of ova embryonated by 4 different methods, found that differences in method of culture profoundly affected ability of fully developed eggs to hatch and parasites to become established in pigs, ova of highest infectivity produced after culture in moist vermiculite

Infectivity

Caley, J., 1975, Ztschr. Parasitenk., v. 47 (3), 217-235
Hymenolepis nana, comparison of cysticercoids from *Tribolium confusum* and mouse villi, electron microscopy; activation and excystation effects of bile salts, other surfactants, pH, succinic and lactic acid

Infectivity

Campbell, W. C.; and Thomson, B. M., 1973, Austral. Vet. J., v. 49 (2), 110-111
 ensheathed and exsheathed nematode larvae, survival rates after liquid nitrogen freezing, cryoprotective effect of exsheathment; exsheathed larvae of *Trichostrongylus colubriformis* proved uninfected even if they had not been frozen

Infectivity

Castro, E. R.; and Canabaz, F., 1968, Bol. Chileno Parasitol., v. 23 (1-2), 23-25
Anaplasma marginale, splenectomized and normal bovines, infectivity of whole blood not destroyed by treatment with gamma ray radiation

Infectivity

Castro, E. R.; and Canabaz, F., 1968, Bol. Chileno Parasitol., v. 23 (1-2), 30-33
Babesia bigemina in splenectomized and normal bovines, effects of various levels of radiation on infectivity of whole blood

Infectivity

Cawthorn, R. J.; and Anderson, R. C., 1976, Canad. J. Zool., v. 54 (4), 442-448
Physaloptera maxillaris larvae in *Acheta pennsylvanicus*, effects of temperature, age of host, and previous infection on parasite development; resulting infectivity to *Mephitis mephitis*

Infectivity

Chaicumpa, V.; Jenkin, C. R.; and Fischer, H., 1977, Austral. J. Exper. Biol. and Med. Sc., v. 55 (5), 561-570
Nematospiroides dubius, effect in vivo of peritoneal exudate cells of immune and normal mice on infectivity of third stage larvae

Infectivity

Chappell, L. H.; and Coles, G. C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (1), 142 [Letter]
Schistosoma mansoni cercariae, reduction in infectivity due to lowered temperature

Infectivity

Chernin, E.; and Antolics, V. M., 1975, J. Parasitol., v. 61 (3), 560-561
Schistosoma mansoni, proportion of miracidia that fail to penetrate susceptible snails under various experimental conditions, implications for transmission

Infectivity

Christensen, N. O.; Nansen, P.; and Frandsen, F., 1976, J. Parasitol., v. 62 (5), 698-701
Fasciola hepatica miracidia, host-finding capacity for *Lymnaea truncatula* in relation to environmental temperature

Infectivity

Collins, W. E.; et al., 1976, J. Parasitol., v. 62 (2), 190-194
 comparative infectivity of 2 strains of *Plasmodium vivax* to 4 strains of *Anopheles albimanus* as well as to *A. freeborni* and *A. maculatus* (all exper.)

Infectivity

Coman, B. J.; and Rickard, M. D., 1975, Ztschr. Parasitenk., v. 47 (4), 237-248
Taenia spp., dogs, location in intestine, size, fecundity, egg hatching within intestine; infectivity of *T. pisiformis* eggs to rabbits (effects of canine intestinal secretions, intestinal passage and storage in feces); repeated *T. ovis* egg infection of puppies having no effect on subsequent *Cysticercus* infection

Infectivity

Coman, B. J.; and Rickard, M. D., 1977, Internat. J. Parasitol., v. 7 (1), 15-20
Taenia pisiformis eggs, ageing process, 4 stages with varying ability to hatch and to infect and develop in rabbits, comparison of in vitro and in vivo estimates of viability, failure of 'senescent' eggs to produce immunity to challenge infection

Infectivity

Cosgrove, W. B.; and Hajduk, S. L., 1975, J. Protozool., v. 22 (3), 26A [Abstract]
Trypanosoma equiperdum, inhibition of membrane transport of glucose by 2-deoxy-D-glucose, loss of motility, morphology, and infectivity, unsuccessful attempt to use in controlling established infections

- Infectivity**
Cox, A. B.; Duncan S.; and Levy, C. K., 1977, *J. Parasitol.*, v. 63 (5), 927-929
Eimeria falciiformis, effects of cobalt irradiation on infectivity and immunogenicity of sporulated oocysts, mice
- Infectivity**
Crook, J. R.; Fulton, S. E.; and Supanwong, K., 1971, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 65 (5), 602-605
Angiostrongylus cantonensis, chlorine or iodine treatment of water used for culinary purposes did not completely attenuate larvae shed into the water by drowned *Achatina fulica* snail vectors, possible source of human infection: Thailand
- Infectivity**
Cunningham, I.; and Honigberg, B. M., 1977, *Science* (4310), v. 197, 1279-1282
Trypanosoma brucei brucei, reacquisition of infectivity for mice in cultures grown in presence of tsetse fly salivary gland explants in medium based on amino acid composition of *Glossina* hemolymph and containing fetal bovine serum
- Infectivity**
Dalglish, R. J., 1972, *Research Vet. Sc.*, v. 13 (6), 540-545
Babesia bigemina, evaluation of glycerol as a freezing protectant, infectivity of parasitised blood containing glycerol for cattle inoculated intravenously vs. subcutaneously
- Infectivity**
Dalglish, R. J.; and Stewart, N. P., 1977, *Austral. Vet. J.*, v. 53 (9), 429-431
Babesia bovis, failure of vaccine strains to regain infectivity for *Boophilus microplus* during long-standing infections in cattle, concluded that the number and frequency of blood passages performed with a strain may determine its infectivity for ticks
- Infectivity**
Dobson, C.; and Owen, M. E., 1977, *Internat. J. Parasitol.*, v. 7 (6), 463-466
Nematospiroides dubius, influence of serial passage on infectivity and immunogenicity in mice
- Infectivity**
Doran, D. J.; and Augustine, P. C., 1977, *J. Protozool.*, v. 24 (1), 172-176
Eimeria dispersa and *E. gallopavonis* in primary chicken and turkey kidney cell cultures, infectivity, survival, development
- Infectivity**
Doran, D. J.; Vetterling, J. M.; and Augustine, P. C., 1974, *Proc. Helminth. Soc. Washington*, v. 41 (1), 77-80
Eimeria tenella, chickens, in vivo and in vitro comparison of Wisconsin, Weybridge, and Beltsville strains, pathogenicity, oocyst production, infectivity
- Infectivity**
Dubey, J. P.; Christie, E.; and Pappas, P. W., 1977, *J. Infect. Dis.*, v. 136 (3), 432-435
Toxoplasma gondii from feces of naturally infected cats, pathogenicity and infectivity of 7 strains of oocysts and cysts compared by infecting mice (exper.) orally and intraperitoneally; cross-immunity of all strains, cysts less pathogenic than oocysts
- Infectivity**
Dubey, J. P.; and Frenkel, J. K., 1976, *J. Protozool.*, v. 23 (4), 537-546
Toxoplasma gondii, course of infection in cats following ingestion of tachyzoites and acutely infected mice, development of populations of tachyzoites into bradyzoites in mice as correlated with biological studies of infectivity for cats and mice, proposed that length of prepatent period in cats is determined by presence or absence of bradyzoites in an ingested specimen
- Infectivity**
Dubey, J. P.; and Streitl, R. H., 1976, *J. Parasitol.*, v. 62 (4), 548-551
Hammondia hammondi, life cycle and transmission: tachyzoites are noninfectious to cats, infectivity being associated with cysts formed by the 10th day of mouse infection; more cysts found in mouse muscle than in brain, less frequent occurrence in spleen, liver, lungs, lymph nodes; absence of congenital transmission in mice; oocysts noninfectious to chickens
- Infectivity**
El-Gindy, M. S.; Mousa, A. H.; and Roushdy, M. Z., 1974, *Egypt. J. Bilharz.*, v. 1 (2), 261-277
S[chistosoma] haematobium, humans, treatment trials with ambilhar using two regimens, comparison of effects of therapy on number, viability, and hatchability of ova and on infectivity of hatched miracidia to vector *Bulinus* snails (exper.)
- Infectivity**
Farlow, G. E., 1976, *Internat. J. Parasitol.*, v. 6 (6), 513-516
Babesia rodhaini, B. argentina, differences in infectivity when incubated in plasma vs. serum, role of glucose in prolonging viability, relevance of findings to living babesial vaccines in which plasma- and serum-based diluents may be used
- Infectivity**
Fayer, R., 1975, *Proc. Helminth. Soc. Washington*, v. 42 (2), 138-140
Sarcocystis-infected beef obtained at slaughter or from retail food stores, effect of refrigeration, cooking, and freezing on infectivity to dogs, "the potential for transmission of *Sarcocystis* to humans and their pets by fresh beef clearly exists."
- Infectivity**
Fitch, C. D., 1977, *Life Sc.*, v. 20 (7), 1281-1284
Plasmodium berghei, chloroquine-resistant and -sensitive parasites have identical infective potencies, indicates that chloroquine-resistant parasites select and preferentially infect immature erythrocytes rather than lacking the capability of infecting mature erythrocytes

Infectivity

- Foley, D. A.; and Vanderberg, J. P., 1977, *Exper. Parasitol.*, v. 43 (1), 69-81
Plasmodium berghei, successful transmission to rats, mice, and hamsters using liver from sporozoite-infected rats without concomitant blood infections, concluded that infections were due to immature exoerythrocytic schizonts (EES), other life cycle stages rigorously excluded as cause of infectivity, immunity to malaria in sporozoite-immune mice does not extend to EES

Infectivity

- Ford, G. E., 1971, *Vet. Rec.* (4883), v. 89 (26), 692 [Letter]
Trichostrongylus retortaeformis sheathed third-stage larvae, rabbits, infectivity increased for at least 2 to 4 weeks after disposition of larvae-containing feces, indicates maturation requirement

Infectivity

- Fregene, A. O.; et al., 1975, *J. Parasitol.*, v. 61 (6), 1070-1073
 comparative responses of radioattenuated *Trypanosoma brucei* and *T. congolense* in rats: radiation sensitivity with respect to infectivity; immunogenicity

Infectivity

- Frenkel, J. K.; Ruiz, A.; and Chinchilla, M., 1975, *Am. J. Trop. Med. and Hyg.*, v. 24 (3), 439-443
 persistence of viable *Toxoplasma gondii* oocysts in soil up to 18 months in Kansas and 1 year in Costa Rica, experimentally buried infected cat feces; Musca fly, *Armadillium* sp., earthworms acted as transport hosts with earthworm possibly also vector as food for birds; seasonal distribution, effects of weather on infectivity

Infectivity

- Frescura, T.; Polidori, G.A.; and Sarris, C., 1972, *Atti Soc. Ital. Sc. Vet.*, v. 26, 509-512
Toxoplasma gondii, oocysts from cat feces, maintained at room temperature for intervals of up to one year, infective to mice

Infectivity

- Gaur, S. N. S.; Dutt, S. C.; and Sokolic, A., 1975, *Ceylon Vet. J.*, v. 23 (3-4), 46-48
Ascaris suum, mice, attenuation of eggs with various doses of gamma-rays, infectivity of developing larvae; preliminary to immunization studies

Infectivity

- de Gee, A. L. W.; Ige, K.; and Leeflang, P., 1976, *Internat. J. Parasitol.*, v. 6 (5), 419-421
Trypanosoma vivax, bovine isolates with inherent property for serial maintenance in mice, cyclical transmission by tsetse flies from sheep to sheep and goat to goat without affecting mouse infectivity, mice not suitable for direct fly transmission experiments

Infectivity

- Gemmell, M. A., 1977, *Exper. Parasitol.*, v. 41 (2), 314-328
Taenia spp., *Echinococcus granulosus*, eggs, hatching characteristics, survival, infectivity of embryos, influence of various factors (different worms, different segments of same worm, moisture, temperature, length of storage, washing), epidemiological implications in regulation of tapeworm populations

Infectivity

- Ghandour, A. M., 1976, *J. Helminth.*, v. 50 (3), 193-196
Schistosoma mansoni, *S. haematobium*, cercariae, infectivity in relation to maintenance temperatures, low or high temperatures markedly increased mortality during penetration of host skin, comparison of death of cercariae in skin with adult worm recovery, mice, hamsters

Infectivity

- Ghandour, A. M.; and Webbe, G., 1975, *J. Helminth.*, v. 49 (4), 245-250
Schistosoma mansoni cercariae, sublethal concentrations of niclosamide increased mortality during penetration of mammalian host skin and consequently reduced adult worm recovery

Infectivity

- Giannini, M. S., 1974, *J. Protozool.*, v. 21 (3), 421-422 [Abstract]
Leishmania donovani, relationship of promastigotes' infectivity for hamsters with frequency of subculture

Infectivity

- Giannini, M. S., 1974, *J. Protozool.*, v. 21 (4), 521-527
Leishmania donovani, promastigote-initiated infection in *Mesocricetus auratus*, infectivity in relation to host age at time of inoculation, growth phase of promastigotes at harvest, and frequency of subculture

Infectivity

- Gupta, R. P., 1976, *Indian J. Animal Sc.*, v. 45 (2), 1975, 66-70
Dictyocaulus viviparus, techniques to culture, store and test infectivity of larvae, storage at various temperatures; infectivity declined as storage time progressed

Infectivity

- Gutteridge, W. E.; Gaborak, M.; and Cover, B., 1975, *J. Protozool.*, v. 22 (3), 51A-52A [Abstract]
Trypanosoma cruzi intracellular stages isolated from rat muscle tissue are active metabolically but infectivity for mice can be accounted for by small number of epimastigotes and trypomastigotes, presumably amastigotes are not equipped to invade and parasitize host cells

Infectivity

- Hanson, W. L.; Chien, J. J.; and Chapman, W. L., jr., 1973, *J. Protozool.*, v. 20 (4), 511
Trypanosoma cruzi, Brazil strain exposed to various quantities of irradiation, ability to produce infections in cell cultures and in mice and to induce resistance in mice

Infectivity

- Harmsen, R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (3), 364-373
Trypanosoma brucei, low survival rate in *Glossina pallidipes* interpreted as in part result of establishment barrier which is less active in young vs. older flies, peritrophic membrane appears unlikely to be establishment barrier, postulated adjustment period for trypanosomes in flies supported by evidence on temperature sensitivity of parasite enzymes

Infectivity

- Hawking, F., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (2), 271 [Abstract]
 human plasma resistance test for measurement of resistance of polymorphic trypanosomes to human plasma, differentiation of potentially infective *Trypanosoma brucei rhodesiense* from non-infective *T. b. brucei*

Infectivity

- Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 504-512
Trypanosoma brucei, *T. rhodesiense*, *T. equiperdum*, polymorphic strains, sensitivity to human plasma, composition and detailed analysis of typical strains using α_2 -macroglobulin test

Infectivity

- Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 70 (5-6), 1976, 513-520
Trypanosoma gambiense, *T. rhodesiense*, *T. brucei*, 60 polymorphic strains from East and West Africa, in vivo test of sensitivity or resistance to human plasma, application to infectivity for man

Infectivity

- Hawking, F., 1977, Tr. Roy. Soc. Trop. Med. and Hyg., v. 71 (5), 427-430
Trypanosoma rhodesiense (6 clones of stabilate), polymorphic trypanosomes (12 clones of stabilate), tests for resistance to human plasma, indications for fundamental differences of genetic material

Infectivity

- Herlich, H., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 52-54
Ostertagia ostertagi, lambs, no patent infections produced after oral inoculation of infective larvae but larvae did exsheath, enter gastric pits, undergo development to adolescent stage, and produce abomasal lesions; adults and mixture of larvae and adolescents recovered from calves and transferred to lambs orally did produce patent infections; mixture of larvae and adolescents recovered from lambs and transferred orally to lambs and calves did not produce patent infections

Infectivity

- Hoff, R. L.; et al., 1977, J. Parasitol., v. 63 (6), 1121-1124
Toxoplasma gondii, forms developed in culture characterized by their oral infectivity for cats and mice and by resulting prepatent periods in cats, investigation of role of antibody in formation of bradyzoites

Infectivity

- Holbrook, T. W.; and Stauber, L. A., 1973, J. Protozool., v. 20 (3), 431-436
Leishmania donovani in chick embryos, effect of number of injected amastigotes on course of infection, differential behavior of several geographic strains, failure of promastigote-induced infection, infectivity of embryo-derived parasites for hamsters

Infectivity

- Howells, R. E.; and Chiari, C. A., 1975, Ann. Trop. Med. and Parasitol., v. 69 (4), 435-448
Trypanosoma cruzi, 2 strains, investigation of differences between slender and stout trypomastigotes, infectivity of different forms to mice, relationship between inoculum size, length of pre-patent period, and course of parasitemia, influence of whole-body X-irradiation and splenectomy of host on course of infection

Infectivity

- James, E. R.; and Taylor, M. G., 1976, J. Helminth., v. 50 (4), 223-233
Schistosoma mansoni, six techniques for transformation of cercariae to schistosomula, comparative efficiency, infectivity of transformed organisms for mice by six different routes of administration, implications for immunization experiments

Infectivity

- Keithly, J. S., 1976, J. Protozool., v. 23 (2), 244-245
Leishmania donovani, improved infectivity assay using hamsters confirms greater infectivity of amastigotes vs. promastigotes

Infectivity

- Kershaw, W. E.; and Storey, D. M., 1976, Ann. Trop. Med. and Parasitol., v. 70 (3), 303-312
Litomosoides carinii infection in cotton rats, comparison of 5 methods of calculating number of infective larvae transmitted to hosts by *Liponyssus bacoti* vectors, relationship between transmission intensities and worms recovered, role of heavy infections in vectors

Infectivity

- Kliwer, I. O.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 39-41
Anaplasma marginale, preservation by freezing in liquid nitrogen, length of storage, minimum infective dose

Infectivity

- Ko, R. C., 1976, Canad. J. Zool., v. 54 (4), 597-609
Echinocephalus sinensis, seasonal variation in incidence and intensity in *Crassostrea gigas*, seasonal variation in infectivity to exper. mammal hosts possibly dependent upon ambient temperature, pathology in mammals, implications for possible human infection from eating poorly cooked oysters: Hong Kong

Infectivity

Krettli, A.; Chen, D. H.; and Nussenzweig, R. S., 1973, *J. Protozool.*, v. 20 (5), 662-665
Plasmodium berghei, *P. cynomolgi*, sporozoites isolated by density-gradient centrifugation, infectivity, ability to induce protective immunity and formation of antisporezoite antibodies, in vitro reactivity in circum-sporozoite precipitation reaction

Infectivity

Lawson, J. R., 1977, *Parasitology*, v. 75 (2), xi-xii [Abstract]
Schistosoma mansoni cercariae, survival in relation to environmental temperature, activity pattern, infectivity, glycogen content

Infectivity

Leeflang, P.; Buys, J.; and Blotkamp, C., 1976, *Internat. J. Parasitol.*, v. 6 (5), 413-417

Trypanosoma vivax, mouse inoculation for diagnosis of infection in cattle, only early natural infections were capable of infecting mice, serial maintenance in mice did not change pathogenicity for ruminants

Infectivity

Leeflang, P.; Ige, K.; and Olatunde, D. S., 1976, *Internat. J. Parasitol.*, v. 6 (6), 453-456

Trypanosoma vivax, infectivity of cyclically and mechanically transmitted ruminant infections for mice and rats, results emphasize value of blood inoculation of rodents for detecting early infections of *T. vivax*

Infectivity

Levy, R.; and Miller, T. W., jr., 1977, *Environment. Entom.*, v. 6 (3), 447-448
Romanomermis culicivorax, effect of pesticides and growth regulators used in mosquito control operations on viability and infectivity

Infectivity

Levy, R.; Murphy, L. J., jr.; and Miller, T. W., jr., 1976, *Mosquito News*, v. 36 (4), 498-501

Reesimermis nielsenii, effects of pressure and nozzle impact of simulated aerial spray system of dissemination, no apparent loss of viability, infectivity, or development, tested against field-collected and laboratory-reared *Culex pipiens quinquefasciatus* larvae

Infectivity

Long, R. A.; Ellis, W. L.; and Taylor, G. R., 1976, *Texas J. Sc.*, v. 27 (1), 163-172
Nematospiroides dubius, response to deep space environment of Apollo 16 manned spaceflight, reduced hatching rate of eggs, unchanged infectivity to mice

Infectivity

McAlister, R. O., 1977, *J. Parasitol.*, v. 63 (3), 455-463
Plasmodium berghei, time-dependent loss of invasive ability of merozoites in vitro

Infectivity

McAlister, R. O.; and Gordon, D. M., 1977, *J. Parasitol.*, v. 63 (3), 448-454
Plasmodium berghei, evaluation of 5 methods for artificial removal of merozoites from infected mouse erythrocytes, free merozoites found to be noninvasive in vitro irrespective of isolation method, infective potential in vivo of these "free" parasite preparations could be accounted for solely on basis of contamination by intact parasitized cells

Infectivity

McGreevy, P. B.; McClelland, G. A. H.; and Lavoipierre, M. M. J., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (1), 97-109
Dirofilaria immitis, susceptibility of *Aedes aegypti* controlled by sex-linked recessive gene which is distinct from those controlling development of *Brugia pahangi* or *D. corynodes*, variation in filarial infectivity as well as in mosquito susceptibility

Infectivity

McKenna, P. B., 1973, *Research Vet. Sc.*, v. 14 (3), 312-316

Haemonchus contortus, two morphologically and geographically distinct strains, effect of storage at 5 or 21 C for varying intervals on infectivity and parasitic development of third-stage larvae in sheep, evidence that small proportion of infective larvae may be innately 'inhibition-prone' and that effect of season on host or ageing of infective larvae or both may be contributory to changes in level of inhibition

Infectivity

Maddox, J. V., 1973, *Misc. Publication Entom. Soc. Am.*, v. 9 (2), 99-104
 persistence of Microsporidia, resistance of spores to environmental conditions, transmission and dispersal, host range and infectivity, effect of temperature on development

Infectivity

Magzoub, M.; and Adam, S. E. I., 1977, *Zentralbl. Vet.-Med.*, Reihe B, v. 24 (1), 53-62
Fasciola gigantica, *Schistosoma bovis*, zebu cattle (livers, mesenteric vessels), histopathology, mixed infections, metabolic activities, viability of eggs and infectivity to snail intermediate hosts are greater for *F. gigantica* than for *S. bovis*: Khartoum abattoir, Sudan

Infectivity

Mathur, S. C., 1976, *Indian Vet. J.*, v. 53 (5), 331-336
 parasitaemia and pathogenicity of 3 strains of *Trypanosoma evansi* maintained at various temperatures (4°C, 28°C, 35°C), mice

Infectivity

Morzaria, S. P.; et al., 1977, *Research Vet. Sc.*, v. 22 (2), 190-193
Babesia major derived from *Haemaphysalis punctata* nymphs, cryopreservation, subsequent infectivity for cattle

Infectivity

Morzaria, S. P.; Brocklesby, D. W.; and Harra-dine, D. L., 1977, *Research Vet. Sc.*, v. 23 (2), 261-262

Babesia major, adult female *Haemaphysalis punctata* could be infected by feeding on infected calves but larvae and nymphs could not, all stages could transmit the parasite to calves, two syringe passages resulted in complete loss of infectivity to ticks

Infectivity

Motomura, I., 1967, *Nettai Igaku (Trop. Med.)*, v. 9 (4), 244-255

Toxoplasma gondii, mice (exper.), infectivity of Beverley cysts and RH proliferative forms, oral and percutaneous inoculations

Infectivity

Mullin, S. W.; and Dondero, T. J., jr., 1971, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 2 (1), 91 [Demonstration]

Brugia malayi, infectivity successfully maintained when stored up to 12 hours at 4°C

Infectivity

Neal, R. A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (1), 119-120

Trypanosoma cruzi, influence of stage of infection in guinea pigs on infectivity to *Rhodnius prolixus* used in xenodiagnosis

Infectivity

Niemi, D. R.; and Macy, R. W., 1974, *Proc. Helminth. Soc. Washington*, v. 41 (2), 223-229

Apophallus donicus, life cycle, morphology, potentially lethal to small salmon and infective to man through fish consumption

Infectivity

Nwosu, A. B. C., 1977, *Bull. Animal Health and Prod. Africa*, v. 25 (1), 73-78

Ancylostoma tubaeformae third-stage larvae, changes in lipid content, activity rate, and penetrability with time and at various temperatures, evaluation of infectivity using these parameters

Infectivity

Obiamiwe, B. A., 1977, *Ann. Trop. Med. and Parasitol.*, v. 71 (4), 491-500

Brugia pahangi, relationships between microfilarial density, number of microfilariae ingested by *Culex pipiens* mosquito vectors and the proportion of mosquitoes infected with larvae

Infectivity

Presidente, P. J. A.; Knapp, S. E.; and Dean, R. E., 1973, *J. Wildlife Dis.*, v. 9 (1), 34-40

Dictyocaulus viviparus, captive *Odocoileus hemionus columbianus* fawns, treatment with cambendazole vs. levamisole hydrochloride, survival and infectivity of larvae on contaminated pasture

Infectivity

Purnell, R. E.; et al., 1974, *J. Comp. Path.*, v. 84 (4), 533-537

Theileria lawrencei Serengeti strain, comparative infectivity for cattle of stabilates derived from adult vs. nymphal *Rhipicephalus appendiculatus*

Infectivity

Raether, W.; and Seidenath, H., 1973, *Ztschr. Tropenmed. u. Parasitol.*, v. 24 (3), 285-295

Trypanosoma rhodesiense, motility and infectivity in various physiologic solutions, results show that motility of trypanosomes in suspension gives no clear indication of actual infectivity, implications for short-term storage

Infectivity

Raether, W.; and Seidenath, H., 1974, *Tropenmed. u. Parasitol.*, v. 25 (1), 28-41

[*Trypanosoma*] *rhodesiense*, [*Trypanosoma*] *brucei*, influence of different physiological solutions and a blood substitute on motility and infectivity after deep-freezing in liquid nitrogen

Infectivity

Raibaut, A.; Ben Hassine, O. K.; and Prunus, G., [1976], *Bull. Soc. Zool. France*, v. 100 (4), 1975, 427-437

Ergasilus nanus, *Mugil cephalus* (gills), infestation dependent upon water temperature and salinity, parasite number increases with host size: lake Ischkeul, Tunisia

Infectivity

Raisanen, S.; and Koivukangas, J., 1976, *Norwegian J. Zool.*, v. 24 (4), 458-459 [Abstract]

Toxoplasma gondii, infectivity of trophozoites in body secretion examined by penetration through intact mucous membranes of mice, greater contamination hazard than previously known, easiest route of infection is intranasal

Infectivity

Raisanen, S.; and Saari, M., 1976, *Med. Biol.*, v. 54 (2), 152-155

effect of preservation time and changes in osmotic pressure on infectivity and survival of *Toxoplasma gondii* trophozoites

Infectivity

Ramachandran, C. P.; and Zaini, M. A., 1968, *Med. J. Malaya*, v. 22 (3), 198-203

laboratory studies of transmission of sub-periodic *Brugia malayi* by *Aedes togoi*, development of parasites to infective form, relationship of density of microfilariae in vertebrate host to number of mosquitoes infected

Infectivity

Ribeiro, R. D.; and Pereira Barretto, M., 1977, *Rev. Brasil. Biol.*, v. 37 (1), 195-200

Trypanosoma cruzi strain isolated from *Caluromys lanatus ochropus*, pathogenic for mice, marsupial strain easily cultivated and has high infectivity for triatomines tested: Teofilo Otoni, M. G., Brazil

- Infectivity**
Richards, C. S., 1976, Bull. World Health Organ., v. 54 (6), 706-707
Schistosoma mansoni strain variations in infectivity for Biomphalaria glabrata, importance of recognizing potential for genetic differences in infectivity for vector snails
- Infectivity**
Richards, C. S., 1976, Symposia Brit. Soc. Parasitol., v. 14, pp. 45-54
Schistosoma mansoni in Biomphalaria glabrata, genetics of host-parasite relationship, selection for substrains more and less infective than parent St. Lucian strain of parasite, snail susceptibility to these substrains, symposium presentation
- Infectivity**
Richey, E. J.; et al., 1973, Proc. 6. National Anaplasmosis Conf. (Las Vegas, Nevada, March 19-20, 1973), 35-39
Anaplasma marginale, preservation by lyophilization, preliminary results: protective substances; duration of infectivity; effect of time of collection of infected blood during patent period
- Infectivity**
Roberts, C. J.; and Gray, A. R., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (2), 278-279 [Abstract]
Trypanosoma congolense isolates from wild game animals, pattern of infectivity for rats may be different from previously described patterns
- Infectivity**
Roberts, R. H.; and Love, J. N., 1977, Am. J. Vet. Research, v. 38 (10), 1629-1630
Anaplasma marginale, calves, viability and infectivity after ingestion of infected erythrocytes by potential insect vectors (eye gnat (Hippelates pusio), horse flies (Tabanidae))
- Infectivity**
Rodriguez, P. H., 1975, J. Med. Entom., v. 12 (4), 447-450
Brugia pahangi, developing larvae in 3 susceptible strains of Aedes aegypti, decrease in susceptibility in high temperature stress
- Infectivity**
Rowntree, S.; and James, C., 1977, J. Helminth., v. 51 (1), 69-70
Schistosoma mansoni, comparison of infectivity of male vs. female cercariae, concluded that male parasite is stronger than female
- Infectivity**
Saari, K. M.; and Raisanen, S. A., 1977, Lancet, London (8047), v. 2, 1077 [Letter]
Toxoplasma gondii, studies show that trophozoites are capable of transmitting infections in acute stages of toxoplasmosis
- Infectivity**
Samish, M., 1977, Nature, London (5632), v. 270, 51-52
Theileria annulata, temperature of 37°C and relative humidity of 95% stimulates production of infective parasite forms in infected adult Hyalomma excavatum ticks without the need for a blood meal
- Infectivity**
Samish, M., 1977, J. Protozool., v. 24 (4), 67A-68A [Abstract]
Theileria annulata, transmission by Hyalomma excavatum, high temperature and humidity may cause uninfected particles in unfed ticks to change into infective ones
- Infectivity**
Samson, K. S.; and Wilson, G. I., 1974, Proc. Helminth. Soc. Washington, v. 41 (1), 112-113
Fasciola hepatica, Rouen ducks possible biological control agents, passage of metacercariae through ducks, infectivity for lambs, 99% reduction of viable metacercariae
- Infectivity**
Seed, T. M.; et al., 1976, Exper. Parasitol., v. 40 (3), 380-390
Plasmodium berghei (intraerythrocytic and ultrasonically liberated), effect of osmotic stress on cell ultrastructure and parasite infectivity, comparison with mouse host erythrocytes, results suggest these parasites have osmotic regulatory capacities at least comparable to host cells
- Infectivity**
Sheffield, H. G.; Frenkel, J. K.; and Ruiz, A., 1977, J. Parasitol., v. 63 (4), 629-641
Sarcocystis muris, mice, development of parasite, cyst wall, and parasitized muscle cells during course of infection and in correlation with potential infectivity of cyst organisms, ultrastructural study
- Infectivity**
Sikorowski, P. P.; and Lashomb, J. H., 1977, J. Invert. Path., v. 30 (1), 95-96
Nosema heliothidis spores isolated from Heliothis zea, loss of infectivity after exposure to sunlight
- Infectivity**
Sinden, R. E.; and Garnham, P. C. C., 1973, Tr. Roy. Soc. Trop. Med. and Hyg., v. 67 (5), 631-637
Plasmodium spp., sporozoite ultrastructure within oocyst and salivary glands, incidence of micropores and possible relationship to infectivity, sporozoite morphogenesis, abnormalities in development
- Infectivity**
Smalley, M. E.; and Sinden, R. E., 1977, Parasitology, v. 74 (1), 1-8
Plasmodium falciparum, gametocytes are both long-lived and show persistent infectivity to mosquitoes, they can stimulate antibody production but immune response appears to play no part in their elimination
- Infectivity**
Smith, H. J., 1976, Canad. J. Comp. Med., v. 40 (3), 320-321
mixed Ostertagia ostertagi and Cooperia oncophora larvae in experimentally infected calves, no significant maturation requirement obtained, maximum infectivity possibly related to incubation temperature

Infectivity

Sohi, S. S.; and Wilson, G. G., 1976, *Canad. J. Zool.*, v. 54 (3), 336-342

Nosema disstriae, cell lines developed from hemocytes and ovarian tissues of naturally infected *Malacosoma disstria* larvae, spores from hemocyte cultures infectious to host larvae, possible use in large-scale production of insect pathogens; ovarian cultures disappeared after several passages

Infectivity

Srivastava, P. S.; and Sharma, N. N., 1976, *Pantnagar J. Research*, v. 1 (1), 70-72

Theileria annulata, cross-bred calves, infectivity and immunogenicity of infected washed bovine erythrocytes, calves highly susceptible to tick challenge (infected *Hyalomma anatolicum*)

Infectivity

Sullivan, J. J.; and Chernin, E., 1975, *J. Parasitol.*, v. 61 (3), 572-573

Brugia pahangi, proportion and location of developing larvae recovered from male *Meriones unguiculatus* killed 10 or 11 days after oral or subcutaneous infection, useful for rapid determination of infectivity

Infectivity

Swietlikowski, M., 1969, *Acta Parasitol. Polon.*, v. 17 (1-19), 95-101

Dictyocaulus viviparus, calves infected orally by larvae refrigerated 3 or 8 months; young larvae produce more severe disease; both ages cause similar immunological response; implications for overwintering, epizootiology, and self-cure

Infectivity

Targett, G. A. T.; Viens, P.; and Wilson, V. C. L. C., 1974, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 68 (2), 148 [Abstract]

Trypanosoma musculi, survival in immunized mouse host blood for at least 1 year in infective state

Infectivity

Teetor, G. E.; and Kramer, J. P., 1977, *J. Invert. Path.*, v. 30 (3), 348-353

Octosporea muscaedomesticae, effect of ultraviolet radiation on naked spores, on various stages within host (*Phormia regina*), and on spores in host feces (survival, infectivity, development), uv-protective function ascribed to components provided by host's tissues and feces

Infectivity

Tosta, C. E.; and Filho, N., 1977, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (5-6), 1976, 531 [Letter]

Plasmodium berghei, factor(s) in normal adult rat serum not related to malarial antibodies that causes decrease in infectivity of parasite

Infectivity

Upatham, E. S., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (6), 884-885 [Letter]

Schistosoma mansoni, infectivity of cercariae after passing over a waterfall, some did survive passage but risk of infection for people bathing or swimming below a waterfall is reduced significantly: St. Lucia

Infectivity

Upatham, E. S., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (2), 235-236

Schistosoma mansoni cercariae, infectivity in relation to stream velocity and distance from entry point including positions immediately above and in slow-flowing pools, epidemiological implications: St. Lucia

Infectivity

Vanderberg, J. P., 1974, *J. Protozool.*, v. 21 (4), 527-537

Plasmodium spp. sporozoites, motility, locomotion, movement, effects of several factors (parasite species, oocyst vs. salivary gland sporozoites, presence of albumin or globulins, temperature), relationship to infectivity, immunogenicity (circumsporozoite precipitate reaction), and secretory activity

Infectivity

Verster, A.; Du Plessis, T. A.; and van den Heever, L. W., 1976, *Onderstepoort J. Vet. Research*, v. 43 (1), 23-26

Taenia solium cysticerci, effect of various doses of gamma radiation on in vitro evagination and on infectivity, longevity, and growth in golden hamsters, infested carcasses can possibly be rendered fit for human consumption when exposed to 20-60 krad. of gamma radiation

Infectivity

Vetter, J. C. M.; and Klaver-Wesseling, J. C. M., 1977, *J. Parasitol.*, v. 63 (4), 700

Ancylostoma ceylanicum, unimpaired infectivity of larvae after storage in liquid nitrogen for one year

Infectivity

Waldeland, H., 1977, *Acta Vet. Scand.*, v. 18 (2), 248-256

Toxoplasma gondii, sheep experimentally infected with sheep strain and RH strain, no significant changes in blood values, *T. gondii* cysts recovered from meat samples of lambs inoculated with sheep strain, but not from lambs inoculated with RH strain

Infectivity

Weiss, M. L., 1976, *Exper. Parasitol.*, v. 40 (1), 103-111

Plasmodium berghei, mouse strain noninfective but highly immunogenic for *Meriones unguiculatus* was adapted to *M. unguiculatus* through serial passage of infected blood, antigenic changes during adaptation, loss of infectivity for mice, different antigens apparently responsible for immunogenicity vs. infectivity, vaccination led to production of some protective antibody but also to blocking and enhancing antibody

Infectivity

Wilkinson, R. N.; Noeypatimanondh, S.; and Gould, D. J., 1976, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 70 (4), 306-307

Plasmodium falciparum, malaria patients before and after chloroquine treatment, infectivity for *Anopheles balabacensis* and *A. minimus*, possible relationship to drug resistance: Thailand

- Infectivity**
Wilson, G. I.; Blachut, K.; and Roberts, I. H., 1977, *Research Vet. Sc.*, v. 22 (3), 292-297
Psoroptes ovis, infectivity to sheep introduced into naturally contaminated enclosures after periods of vacancy (under conditions in southwestern United States), recommended time lapse before contaminated animal enclosures can be used by clean sheep; experimental transfer of mites to sheep following periods of off-host storage at various temperatures, mite survival rate
- Infectivity**
Wright, C. A.; and Southgate, V. R., 1976, *Symposia Brit. Soc. Parasitol.*, v. 14, 55-86
hybridization of schistosomes (history, reciprocity of interspecific pairings, egg morphology of hybrids, intermediate and definitive host infectivity of hybrids, behavior of hybrid cercariae, isoenzymes of hybrids), review with results of recent work on *Schistosoma haematobium* X *S. intercalatum*, practical implications, symposium presentation
- Infectivity**
van Wyk, J. A.; van Rensburg, L. J.; and Heitmann, L. P., 1976, *Onderstepoort J. Vet. Research*, v. 43 (2), 43-54
Schistosoma mattheei, Merino and Dorper sheep (exper.), influence of host age and breed on infestation (host susceptibility, cercarial penetration and development to adults, distribution of worms in host, worm sex ratio, egg excretion); variation in cercarial infectivity
- Infectivity**
Yousif, F.; and Laemmler, G., 1975, *Ztschr. Parasitenk.*, v. 47 (3), 191-201
Angiostrongylus cantonensis, factors influencing infectivity of first stage larvae to *Biomphalaria glabrata*, size of snails, number of larvae, age of larvae, individual or mass exposure, length of exposure, temperature, light
- Inhibited development. See Development.
- Integument.** [See also Cuticle; Parasite surfaces; Skin; Tegument]
- Integument**
Bruce, J. I.; and Pezzlo, F., 1970, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 1 (4), 563 [Demonstration]
Schistosoma mansoni, mice (exper.), ultrastructure of host skin, lung and liver and of migrating larva integument following cercarial penetration
- Integument**
Hart, R. J.; Turner, R.; and Wilson, R. G., 1977, *Internat. J. Parasitol.*, v. 7 (2), 129-134
Hymenolepis nana, bunamidine causes decrease in glucose uptake and increase in glucose efflux and stimulation of surface phosphatase activity, suggests that disruption of integument is mode of action by which worm death is caused, ultrastructural studies confirm these biochemical indications of integumental damage
- Integument**
Kuntz, R. E.; et al., 1976, *J. Parasitol.*, v. 62 (1), 63-69
Schistosoma haematobium, specimens prepared by critical point drying technique, scanning electron microscopy of integumental surfaces, differences between sexes and different parts of the same parasite
- Integument**
Kuntz, R. E.; et al., 1977, *J. Parasitol.*, v. 63 (3), 401-406
Schistosoma intercalatum adults, integumental surfaces, scanning electron microscopy of critical point dried specimens
- Integument**
Poliakova-Krusteva, O., 1974, *Izvest. Tsentral. Khelmin. Lab.*, v. 17, 89-99
Dicrocoelium lanceatum, integument, ultrastructure
- Integument**
Sakamoto, K.; and Ishii, Y., 1977, *J. Parasitol.*, v. 63 (3), 407-412
Schistosoma japonicum adults, integumental surfaces, scanning electron microscopy of critical point dried specimens
- Integument**
Sogandares-Bernal, F., 1976, *J. Parasitol.*, v. 62 (2), 222-226
Schistosoma mansoni adults, 7S₂ antibody attached to and in the integument does not seem to fix complement, may act in enhancing and blocking roles which protect worms from host
- Integument**
Vasilev, I.; and Poliakova-Krusteva, O., 1973, *Izvest. Tsentral. Khelmin. Lab.*, v. 16 29-42
Raillietina carneostrobilata, integument, ultrastructure
- Intelligence**
Bell, R. M. S.; et al., 1973, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 67 (5), 694-701
schistosomiasis, school children, impaired intellectual ability in infected children, treatment with intramuscular hycanthon mesylate produced significant improvement: Rhodesia
- Interferon**
Brocklesby, D. W.; and Harradine, D. L., 1973, *Research Vet. Sc.*, v. 14 (3), 397-398
Babesia rodhaini, mice, death delayed by approximately 1 day by prolonged administration of an interferon inducer
- Interferon**
Rytel, M. W.; Rose, H. D.; and Stewart, R. D., 1973, *Proc. Soc. Exper. Biol. and Med.*, v. 144 (1), 122-123
Trypanosoma cruzi, *Plasmodium falciparum*, *P. vivax*, humans, lack of circulating humoral interferon in serum of persons with acute illness
- Intestine.** [See also Colitis; Digestive system; Enteritis; Gastroenteritis]

Intestine, Host

Ali-Khan, Z.; and Seemayer, T. A., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (5-6), 473-476

Strongyloides stercoralis, fatal bowel infarction and septicemia in man with systemic strongyloidiasis, clinical case report, possible relationships between auto-infection and long-term steroid therapy: Montreal, Canada (immigrant from Hong Kong)

Intestine, Host

Anderson, W. I.; et al., 1977, Avian Path., v. 6 (2), 125-130

Eimeria meleagridis, *E. gallopavonis*, *E. adenoides*, turkey poults, altered intestinal pH values

Intestine, Host

Andreassen, J.; and Jørring, K., 1970, Nord. Med., Stockholm, v. 84 (48), 1492-1495

anisakiasis in human presenting as acute appendicitis, at surgical intervention white worm larvae discovered in intestinal wall, other larvae found in patient's home-salted herring: Denmark

Intestine, Host

Angate, Y.; et al., 1974, Medecine Afrique Noire, v. 21 (1), 61-65

symptoms of acute abdomen resulting from human intestinal parasites, medical and surgical care, case reports: Abidjan, Ivory Coast

Intestine, Host

Ashizawa, H.; et al., 1975, Bull. Fac. Agric. Miyazaki Univ., v. 22 (2), 211-220

Trichuris suis, pathology of swine cecum and colon: slaughterhouses in Kagoshima and Miyazaki Prefectures

Intestine, Host

Ausin, J. M.; Baquedano, F.; and Medina, A., 1966, Bol. Chileno Parasitol., v. 21 (3), 88-91

Ascaris lumbricoides in 4-year-old child, expulsion of 2 living adult worms through the umbilicus, X-ray examination showed fistula into small bowel, case report: San Fernando, Chile

Intestine, Host

Badran, I.; et al., 1973, Med. J. Cairo Univ., v. 41 (4), 245-268

extensive clinical review of human schistosomal proctocolonic polyposis, medical treatment with ambilhar and iron therapy for severe anemia, indications for surgery in more severe cases: Egypt

Intestine, Host

Bartholomew, C.; et al., 1977, Postgrad. Med. J., London (617), v. 53, 139-142

Strongyloides stercoralis, humans, case reports of sprue-like symptoms and pseudo-intestinal obstruction, pathologic findings, good results with thiabendazole therapy: Trinidad, West Indies

Intestine, Host

Benz, G. W.; and Ernst, J. V., 1976, Am. J. Vet. Research, v. 37 (8), 895-899

Cooperia punctata and/or *Eimeria bovis*-infected calves, reduced alkaline phosphatase activities in intestinal mucosa

Intestine, Host

Boorman, G. A.; et al., 1973, Lab. Animal Sc., v. 23 (2), 187-193

Hexamita muris, *Giardia muris*, potentially pathogenic in newly weaned mice, causing enteritis and mortality in association with normal intestinal bacterial flora, quina-craine dihydrochloride not effective in reducing mortality, dimetridazole effective

Intestine, Host

Bueno, L.; Dorchies, P.; and Ruckebusch, Y., 1976, Compt. Rend. Soc. Biol., Paris, v. 169 (6), 1975, 1627-1632

Trichostrongylus, lambs (exper.), disturbances in gastrointestinal motility preceding diarrhea, electromyographic analysis, effect of thiabendazole treatment

Intestine, Host

Cantor, D. S.; et al., 1966, Bol. Chileno Parasitol., v. 21 (3), 70-76

Necator americanus, small bowel studies of humans with single and mixed parasitic infections to correlate pathology and fecal fat excretion: Argentina

Intestine, Host

Carbo-Baptista, N.; Larbier, M.; and Yvone, P., 1976, Avian Path., v. 5 (3), 187-194

Eimeria acervulina, decreased intestinal absorption of ¹⁴C L-lysine and water accompanied by an increase in tissue water content and in secretion rate of mineral ions (Na⁺ and K⁺) in infected chicks

Intestine, Host

Casarsa, L.; Lugetti, G.; and Marconcini, A., 1973, Isotopes and Radiation Parasitol. III, 113-126

Ascaris suum, guinea pigs vaccinated and then subjected to whole-body irradiation, enteric wall reactivity against challenge, relationship to in vitro adherence reaction

Intestine, Host

Casarsa, L.; Lugetti, G.; and Marconcini, A., 1974, Ann. Fac. Med. Vet. Pisa, v. 26, 1973, 385-401

Ascaris suum-vaccinated guinea pigs, total body x-irradiation and challenge infection, enteric wall reactivity, globule leukocytes, immunoglobulin-containing cells; globule leukocytes depleted in challenged hosts; higher number of fluorescing mature plasma cells in lamina propria of vaccinated animals

Intestine, Host

Castro, G. A.; et al., 1976, Gastroenterology, v. 71 (4), 620-625

Trichinella spiralis, increased propulsive activity in parasitized rats with associated inflammatory changes and a significant reduction in disaccharidase levels in gut mucosa

Intestine, Host

- Castro, G. A.; Post, C. A.; and Roy, S. A., 1977, *J. Parasitol.*, v. 63 (4), 713-719
Trichinella spiralis-immunized rats, challenge infection does not elicit changes in intestinal motility in contrast to a primary infection of equal size which enhances intestinal transit

Intestine, Host

- Chavarría Gonzalez, S.; and Rivera Reyes, H. H., 1976, *Prensa Med. Mexicana*, v. 41 (3-4), 76-83
Entamoeba histolytica, humans, resulting in intestinal perforation, review of 55 cases, clinical aspects, pathology: Mexico

Intestine, Host

- Croll, N. A., 1976, *Internat. J. Parasitol.*, v. 6 (5), 441-448
Nippostrongylus brasiliensis, dispersion in rat intestine related to host feeding and diet

Intestine, Host

- Croll, N. A.; and Ma, K., 1977, *Internat. J. Parasitol.*, v. 7 (1), 21-26
Nippostrongylus brasiliensis, localization in rats, influence of surgical manipulation of intestine and mesenteric blood supply on dispersion

Intestine, Host

- Crompton, D. W. T.; and Nesheim, M. C., 1976, *Advances Parasitol.*, v. 14, 95-194
 host-parasite relationships in alimentary tract of domestic birds, extensive review: nutrition of domestic birds; alimentary tract as habitat for parasites; alimentary tract of germ-free birds; parasite distribution within alimentary tract; relationships between parasites and host digestive physiology and nutrition

Intestine, Host

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Intestine, Host

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- Intestine, Host
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- Intestine, Host
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- Intestine, Host
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- Intestine, Host
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Intestine, Host

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Intestine, Host

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Intestine, Host

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Ascaris in children, dead worms in cecum after therapy as cause of intestinal obstruction and constipation, diagnosis by X-ray examination

Intestine, Host

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Capillaria philippinensis, ultrastructural survey of pathologic changes in intestinal infections in humans and *Meriones unguiculatus* (exper.)

Intestine, Host

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Nippostrongylus brasiliensis-infected rat jejunum, scanning electron microscopy

Intestine, Host

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Intestine, Host

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Intestine, Host

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Intestine, Host

Toft, J. D. II; Schmidt, R. E.; and De Paoli, A., 1976, *J. Med. Primatol.*, v. 5 (6), 360-364

Oxyuridae in *Pan troglodytes*, multiple intestinal polyps, histologic characteristics

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Intestine, Host

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Intestine, Host

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Intestine, Host

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Intestine, Host

Wilkins, D.; and Lee, D. L., 1976, *Parasitology*, v. 72 (1), 51-63

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Intestine, Host

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Intestine, Host

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Intestine, Host

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Intestine, Host

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Intestine, Parasite

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Schistosoma, *Fasciola*, relative nutritional roles of gut and tegument

Intestine, Parasite

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Intestine, Parasite

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Intestine, Parasite

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Bunostomum trigonocephalum, ultrastructure of intestinal cells; probably not haematophage, host anemia probably results from injuries to host gut followed by blood loss

Intestine, Parasite

Halton, D. W., 1976, Exper. Parasitol., v. 40 (1), 41-47

Diclidophora merlangi gut, sloughing of hematin cells occurs only rarely, any renewal of hematin cells takes place at a very low rate

Intestine, Parasite

Halton, D. W., 1976, Parasitology, v. 73 (2), xxi-xxii [Abstract]

Calicotyle kroyeri vs. *Diclidophora merlangi*, examination of 3 organ systems with respect to nutrition, diet, feeding mechanism (foregut, gut caeca, tegument)

Intestine, Parasite

Halton, D. W.; and Stranock, S. D., 1976, Internat. J. Parasitol., v. 6 (3), 253-263

Calicotyle kroeyeri, caecal epithelium, fine structure and histochemistry, single cell type functions in uptake and intracellular digestion of host epidermis and associated mucus

Intestine, Parasite

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Ascaris suum, pieces of gut tissue in vitro, oxygen consumption, production of fermentation acids, anaerobic synthesis of protein

Intestine, Parasite

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Intestine, Parasite

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Intestine, Parasite

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Tanqua tiara, ultrastructure of intestinal epithelium, presence of polymorphic inclusion bodies possibly associated with parasite's mode of feeding: Singapore

Intestine, Parasite

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Intestine, Parasite

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Nematodirus battus, appearance of large hexagonal crystals blocking intestine, lipoprotein in composition, apparently associated with development of immunity to this nematode in lambs

Intestine, Parasite

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Fasciola hepatica, *rediae*, *cercariae*, histochemistry with particular emphasis on enzymes, localization in tegument and caecum suggests probable absorptive and digestive functions

Intestine, Parasite

Munn, E. A., 1977, Tissue and Cell, v. 9 (1), 23-34

Haemonchus contortus, structure of intestinal cells, helical polymeric extracellular protein associated with luminal surface for which name contortin is proposed, *Ostertagia circumcincta* also contained contortin-like material but *Nippostrongylus brasiliensis* and *Syphacia obvelata* contained material associated with outer surface of microvilli which was quite distinct from contortin

Intestine, Parasite

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Ascaris suum, intestinal basement membrane, characterization of carbohydrate units

Intestine, Parasite

Perkatova, V. N., 1975, Dokl. Vsesoiuz. Akad. Sel'skokhoz. Nauk (10), 39-40

Gastrothylax crumenifer, morphology and physiology of tegument, intestine and *saccus alimentarius*, localization of non-specific esterase; adaptations to existence among dense papillae of rumen and glandular structure thereof

Intestine, Parasite

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Xenopsylla cheopis, *Echidnophaga gallinacea*, *Tunga penetrans*, ultrastructure of midgut epithelium in relation to feeding behavior patterns (temporary vs. stationary parasites)

Intestine, Parasite

Trimble, J. J. III; and Thompson, S. A., 1975, Ztschr. Parasitenk., v. 47 (2), 131-144

Ascaris suum, intestinal epithelium, carbohydrate cytochemistry, microvilli surface, basal lamella, electron microscopy

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Ascaris suum, *Parascaris equorum*, distribution of concanavalin A binding site on nematode intestinal epithelium

Intrauterine infection. See Prenatal infection.

Invasion mechanisms. [See also Endocytosis; Penetration; Phagocytosis]

Invasion mechanisms

Alexander, J., 1975, J. Protozool., v. 22 (2), 237-240

differential effect of antiphagocytic agent cytochalasin B on macrophage invasion by *Leishmania mexicana* promastigotes vs. *Trypanosoma cruzi* epimastigotes suggests that *L. mexicana* enters macrophages by being phagocytosed whereas *T. cruzi* can actively penetrate these cells

Invasion mechanisms

Bannister, L. H., 1977, Symposia Brit. Soc. Parasitol., v. 15, 27-55

Plasmodium, invasion of red cells, symposium presentation: process of invasion (structure and formation of merozoites; release of merozoites from schizont; extracellular transit; adhesion to new host cell; invasion (theories of red cell deformation, removal of cell coat, passage of merozoite into parasitophorous vacuole, comparison with invasion in other genera of coccidians, recognition of red cell by merozoites); transformation of merozoites into trophic parasite); immunological aspects of invasion

Invasion mechanisms

Bannister, L. H.; et al., 1975, Tr. Roy. Soc. Trop. Med. and Hyg., v. 69 (1), 5 [Demonstration]

Plasmodium knowlesi merozoites, fine structure and invasive behavior

Invasion mechanisms

Bannister, L. H.; et al., 1975, J. Protozool., v. 22 (3), 48A [Abstract]

Plasmodium knowlesi merozoites, invasion of erythrocytes, electron microscopic study

Invasion mechanisms

Hommel, M.; McColm, A. A.; and Trigg, P. I., 1977, J. Protozool., v. 24 (4), 40A-41A [Abstract]

Plasmodium knowlesi, reinvasion in vitro into erythrocytes pretreated with membrane-active drugs

Invasion mechanisms

Jensen, J. B.; and Hammond, D. M., 1975, J. Protozool., v. 22 (3), 411-415

Eimeria magna, penetration into cultured cells, ultrastructure of invasion process

Invasion mechanisms

Lewis, D. H., 1974, *Ann. Trop. Med. and Parasitol.*, v. 68 (3), 327-336

Leishmania mexicana mexicana, infection of dog sarcoma cells in presence of cytochalasin B indicates parasites can infect host cells without agency of active phagocytosis by latter; differing abilities of various *Leishmania* spp. promastigotes to infect same cell type suggest active contribution of parasites themselves to infection

Invasion mechanisms

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Trypanosoma dionisii, attachment and entry to mouse peritoneal macrophages in vitro and involvement of membrane receptors, relative roles of non-specific and specific immunological factors in these processes need further clarification

Invasion mechanisms

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monogenean trematodes, invasive behavior, review

Invasion mechanisms

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coccidia, invasion of host cells, symposium presentation: general considerations; excystation; invasion of cells by *Eimeria* in vivo; host reactions to invasion by *Eimeria*; invasion of cells by *Eimeria* sporozoites in vitro; factors affecting invasion of cells by sporozoites; invasion of cultured cells by merozoites; invasion of cells by *Toxoplasma*

Invasion mechanisms

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larval helminths, passage through tissue barriers, symposium presentation: invasion of invertebrate hosts (cestodes and Acanthocephala, nematodes, trematodes); invasion of vertebrate hosts (skin penetration by cercariae, invasion by nematode larvae, migration within and emergence from hosts)

Invasion mechanisms

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Plasmodium falciparum, P. knowlesi, susceptibility of human erythrocytes lacking various blood group antigens to invasion, differential effect of enzyme treatment of human erythrocytes on invasion, evidence for difference in erythrocyte surface receptors for these two parasites

Invasion mechanisms

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Trypanosoma cruzi, uptake and intracellular fate in normal and activated macrophages, workshop report

Invasion mechanisms

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Moreirastrongylus andersoni, mode of entry (ingestion) and localization in *Limnaea stagnalis* and *Planorbarius corneus*

Invasion mechanisms

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Babesia microti, invasion into erythrocytes

Invasion mechanisms

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Babesia microti invades host erythrocyte through invagination of host plasma membrane with formation of parasitophorous vacuole, vacuolar space disappears and membrane of parasite and vacuole become closely adjacent, outer membrane then disintegrates

Invasion mechanisms

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Trypanosoma cruzi, ultrastructural study of entry of epimastigotes and trypomastigotes into L-cells and normal and activated macrophages in vitro

Invasion mechanisms

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Dirofilaria immitis, mechanism of transmission by *Aedes togoi* (exper.), route of invasion via puncture of mosquito bite

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Iran

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Iran
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Iran

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Iran

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Irradiation. See Radiation.

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Echinococcus granulosus, incidence in dogs apparently on the decline: Apulia, Italy

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Italy

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strongyles, sheep, seasonal variation in incidence: central-south and insular Italy

Italy

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gastrointestinal strongylosis, survey by fecal examination, incidence, cattle, sheep, goats, horses, pigs, 1,788 farms, various regions

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Ivory Coast

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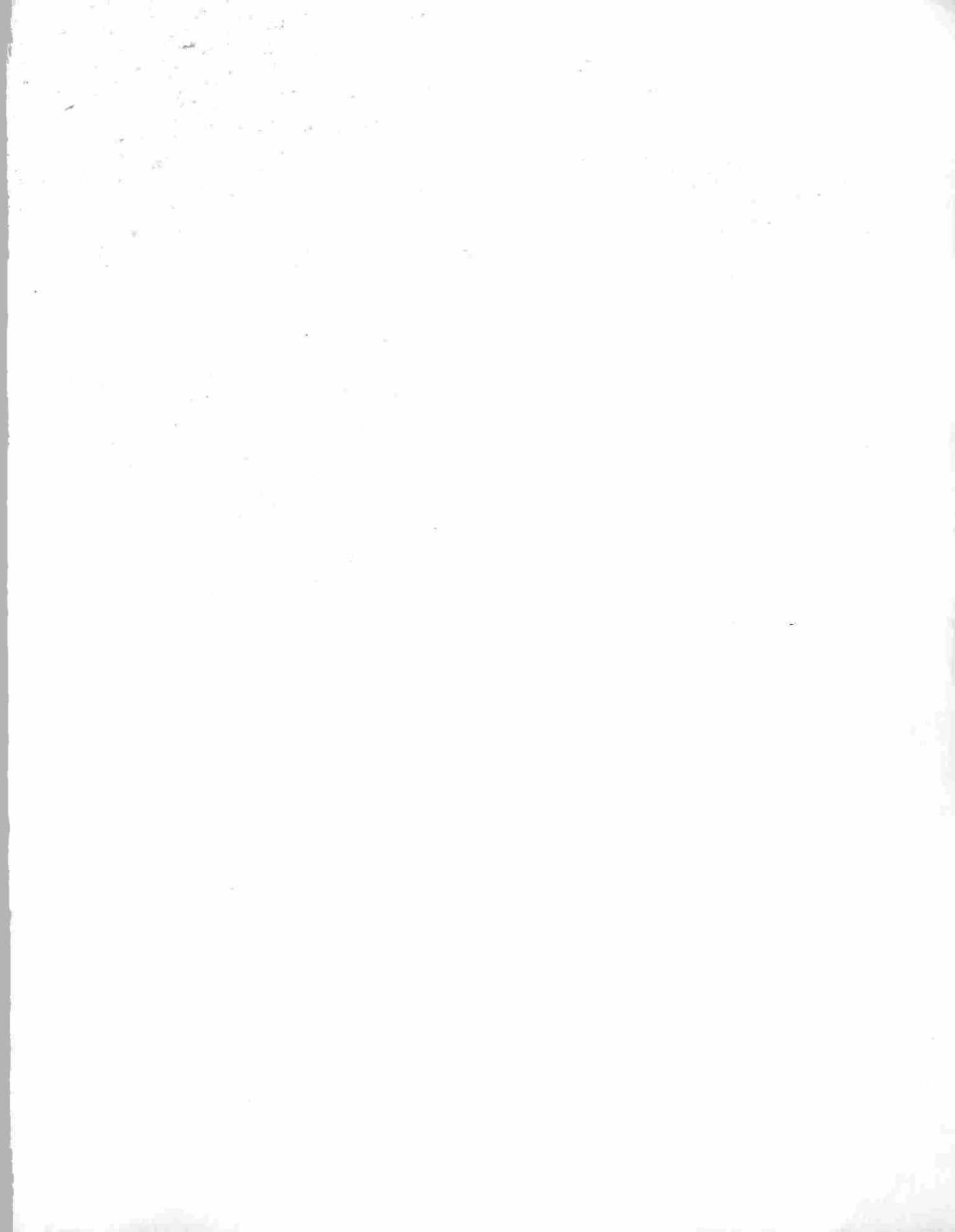
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