

SELECTED LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

1986, Part 3

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Most of the titles listed here have been obtained from *Current Contents* and the *Review of Applied Entomology*, Series B. Selections are made so that mosquito control workers and researchers may keep abreast of current developments. Appreciation is expressed to Dr. Ronald A. Ward for providing many of the entries. The work was supported in part by Grant AI 15643 from the National Institute of Allergy and Infectious Diseases, National Institutes of Health, USDHHS.

ANATOMY, MORPHOLOGY, AND PSYCHOLOGY

- Baldridge, G. D. and R. Feyereisen. 1986. Blood meal and cytochrome P-450 momooxygenases in the northern house mosquito, *Culex pipiens*. *Pestic. Biochem. Physiol.* 25(3):407-413.
- Borovsky, D. 1986. Proteolytic enzymes and blood digestion in the mosquito, *Culex nigripalpus* Arch. *Insect Biochem. and Physiol.* 3(2):147-160.
- Briegel, H. 1986. Protein catabolism and nitrogen partitioning during oogenesis in the mosquito *Aedes aegypti*. *J. Insect Physiol.* 32(5):455-462.
- Gabinaud, A. et al. 1985. Mammophily in *Culex pipiens pipiens* populations of southern France; variations of this character according to the type of larval biotypes, physico-chemical characteristics of their waters and seasons. Practical and theoretical consequences. *Cah. ORSTOM ser. Entomol. Med. Parasitol.* 23(2):123-132. In French.
- Gophen, M. 1985. T₂-coliphage uptake by mosquito larvae. *Water Res.* 19(1):89-91.
- Guilvard, E. and J. A. Rioux. 1986. Dynamics of autogeny in a natural population of *Aedes (O.) detritus* (Holiday, 1833), sibling species a in the Camargue—the importance of photoperiod. *Ann. Parasitol. Hum. Comp.* 61(1):109-126. In French.
- Hempelmann, E. et al. 1986. Immunoprecipitation of malarial acid endopeptidase. *Parasitol.* 92(2):305-312.
- Houk, E. J. et al. 1986. Isolation and characterization of brush border fragments from mosquito mesenterons. *Arch. Insect Biochem. Physiol.* 3(2):135-146.
- Houk, E. J. et al. 1986. Mesenteronal epithelial cell surface charge of the mosquito *Culex tarsalis* Coquillett—binding of colloidal iron hydroxide, native ferritin, and cationized ferritin. *J. Submicrosc. Cytol.* 18(2):385-396.
- Houseman, J. G. and A. E. R. Downe. 1986. Methods of measuring blood meal size and proteinase activity for determining effects of mated state on digestive processes of female *Aedes aegypti* (L.) (Diptera: Culicidae). *Can. Entomol.* 118(3):241-248.
- Klowden, M. J. 1986. Effects of sugar deprivation on the host-seeking behaviour of gravid *Aedes aegypti* mosquitoes. *J. Insect Physiol.* 32(5):479-484.
- Kruppa, T. 1986. A simple method to induce oviposition in *Culex pipiens* complex mosquitoes. *Akaieka Newsletter* 10(4):107-108.
- Machiya, K. et al. 1985. A convenient synthesis of four stereoisomers of 6-acetoxy-5-hexadecanolide, the major component of the mosquito oviposition attractant pheromone. *Agri. Biol. Chem.* 49(3):643-649.
- Malinoski, F. J. and V. Stollar. 1986. Clones of *Aedes albopictus* cells resistant to methylmercaptapurine riboside. *Arch. Insect Biochem. Physiol.* 3(3):293-306.
- Peters, W. and B. Wiese. 1986. Permeability of the peritrophic membranes of some Diptera to labeled Dextrans. *J. Insect. Physiol.* 32(1):43-50.
- Peterson, E. 1986. ³H—hypoxanthine incorporation into fresh and stored blood: implications for resistance determination in *P. falciparum* malaria. *Ann. Trop. Med. Parasitol.* 80(2):251-252.
- Petzel, D. H. et al. 1986. Peptide nature of two mosquito natriuretic factors. *Amer. J. Physiol.* 250(3) Part 2: R328-R332.
- Raikhel, A. S. 1986. Lysosomes in the cessation of vitellogenin secretion by the mosquito fat body; selective degradation of Golgi complexes and secretory granules. *Tissue & Cell* 18(1):125-142.
- Rasnitzyn, S. P. 1986. Analysis of the use of indices characterizing size, weight, and fecundity of mosquitoes as morphological indicators. *Parazitologiya* 20(2):106-111.
- Rosignol, P. A. and A. M. Lueders. 1986. Bacteriolytic factor in the salivary glands of *Aedes aegypti*. *Comp. Biochem. Physiol B,* 83(4):819-822.
- Schinkarenko, L. et al. 1986. Reliability of using head capsule width and body length to identify larval instars of *Aedes vigilax* (Diptera: Culicidae). *J. Austral. Entomol. Soc.* 25(1):37-40.
- Tadano, T. 1986. Methods for agar gel electrophoresis of various enzymes in mosquitoes. *Akaieka Newsletter* 10(4):100-106.
- Opoku, A. K. et al. 1986. Preliminary field evaluation of the repellent Simno against the black fly *Simulium damnosum* S₁ a biting midge, and mosquitoes. *Insect Sci. Appl.* 7(1):31-36.

BEHAVIOR, BIOLOGY, AND ECOLOGY

- Bradshaw, W. E. and C. M. Holzapfel. 1986. Habitat segregation among European tree-hole mosquitoes. *Natl. Geograph. Res.* 2(2):167-178.
- Coetzee, M. and R. H. Hunt. 1985. The behavior of a particular Anopheline species of Natal South Africa. *J. Entomol. Soc. South Afr.* 48(2):343-344.
- Dye, C. and H. Hasibeder. 1986. Population dynamics of mosquito-borne disease: effects of flies which

- bite some people more frequently than others. *Tran. Roy. Soc. Trop. Med. Hyg.* 80(1):69-77.
- Farkas, M. J. and R. A. Brust. 1986. Phenology of the mosquito *Wyeomyia smithii* (Coq.) in Manitoba and Ontario. *Can. J. Zool.* 64(2):285-290.
- Ginsberg, H. S. 1986. Dispersal patterns of *Aedes sollicitans* (Diptera: Culicidae) at the east end of Fire Island National Seashore, New York, U.S.A. *J. Med. Entomol.* 23(2):182.
- Holmes, P. R. 1986. A study of population changes in adult *Culex quinquefasciatus* Say (Diptera: Culicidae) during a mosquito control programme in Dubai, United Arab Emirates. *Ann. Trop. Med. Parasitol.* 80(1):107-116.
- Lines, J. D. et al. 1986. Mixing of indoor- and outdoor-resting adults of *Anopheles gambiae* s.l. and *A. funestus* Giles (Diptera: Culicidae) in coastal Tanzania. *Bull. Entomol. Res.* 76(1):171-178.
- Nagpal, B. N. and V. P. Sharma. 1985. Tree hole breeding and resting of mosquitoes in Orissa India. *Indian J. Malariol.* 22(2):115-118.
- Porter, C. H. et al. 1986. Intervals to blood feeding following emergence and oviposition in *Aedes triseriatus* (Diptera: Culicidae). *J. Med. Entomol.* 23(2):222-224.
- Reisen, W. K. and M. M. Milby. 1986. Population dynamics of some Pakistan mosquitoes: changes in adult relative abundance over time and space. *Ann. Trop. Med. Parasitol.* 80(1):53-68.
- Reisen, W. K. 1986. Population dynamics of some Pakistan mosquitoes: the impact of residual organophosphate insecticide spray on anopheline relative abundance. *Ann. Trop. Med. Parasitol.* 80(1):69-76.
- Reisen, W. K. et al. 1986. Population dynamics of some Pakistan mosquitoes: temporal changes in reproductive status, age structure, and survivorship of *Anopheles culicifacies*, *An. stephensi*, and *Culex tritaeniorhynchus*. *Ann. Trop. Med. Parasitol.* 80(1):77-96.
- Russell, R. C. 1986. Seasonal activity and abundance of the arbovirus vector *Culex annulirostris* Skuse near Echuca, Victoria, in the Murray Valley of Southwestern Australia 1979-1985. *Austral. J. Exp. Biol. Med. Sci.* 64(1):97-103.
- Service, M. W. 1986. The biologies of *Aedes caspius* (Pallas) and *Culex quinquefasciatus* Say (Diptera: Culicidae) in Dubai. *Insect Sci. Appl.* 7(1):11-18.
- Sih, A. 1986. Antipredator responses and the perception of danger by mosquito larvae. *Ecology* 67(2):434-441.
- Trueman, D. W. and S. B. McIver. 1986. Temporal patterns of host-seeking activity of mosquitoes in Algonquin Park, Ontario. *Can. J. Zool.* 64(3):731-737.
- for studying predator-prey relationships. *Bull. Entomol. Res.* 76(1):141-150.
- Balaraman, K. and S. L. Hoti. 1986. Factors influencing in vitro zoosporogenesis of mosquito pathogenic fungus, *Lagenidium*. *Indian J. Med. Res.* 83:380-383.
- Becnel, J. J. et al. 1986. Fine structure and development of *Pilosporella chapmani* (Microspora, Thelohanidae) in the mosquito, *Aedes triseriatus* (Say). *J. Protozool.* 33(1):60-66.
- Bence, J. R. and W. W. Murdoch. 1986. Prey size selection by the mosquitofish: relation to optimal diet theory. *Ecology* 67(2):324-336.
- Frances, S. P. 1986. Record of the mosquito pathogenic fungus *Culicinomyces clavisporus* Couch, Romney and Rao infecting larvae of *Culiseta inconspicua* Lee (Diptera: Culicidae) in Victoria. *J. Austral. Entomol. Soc.* 25(1):60.
- Franz, T. G. et al. 1986. Mycoflora of *Aedes* mosquitoes along the OB near Tomsk. *Mikol. Fitopatol.* 20(1):23-25.
- Garcia, R. and A. W. Sweeney. 1986. The use of microbial pathogens for the control of mosquitoes. *Agric. Ecosyst. Environ.* 15(2-3):201-208.
- Garcia-Patrone, M. et al. 1986. The inactivation of *Bacillus thuringiensis* subsp. *israelensis* toxin by mosquito larvae proteases liberated in the medium. *Biochem. Biophys. Res. Commun.* 135(3):902-908.
- Goldman, I. F. et al. 1986. Selection for resistance to *Bacillus thuringiensis* subspecies *israelensis* in field and laboratory populations of the mosquito *Aedes aegypti*. *J. Invert. Pathol.* 47(3):317-324.
- Hall, D. W. and R. K. Washino. 1986. Sporulation of *Amblyospora californica* (Microspora: Amblyosporidae) in autogenous female *Culex tarsalis*. *J. Invertebr. Pathol.* 47(2):214-218.
- Hughes, A. L. 1986. Seasonal changes in sexual receptivity of female mosquitofish, *Gambusia affinis*. *Biol. Behav.* 11(1):3-15.
- Lee, H. L. et al. 1986. Laboratory evaluation of the persistence of *Bacillus thuringiensis* var. *israelensis* against *Aedes aegypti* larvae. *Mosquito-Borne Diseases Bull.* 2(3):61-66.
- Kerwin, J. L. et al. 1986. Oosporogenesis in *Lagenidium giganteum* in liquid culture. *J. Invert. Pathol.* 47(3):258-270.
- Khorkhordin, E. G. 1985. The intensity of predation of the *Aeschna affinis* (Odonata Aeshnidae) larvae of different instars with reference to development stage of prey and size of experimental space. *Zool. Zh* 64(9):1422-1426. In Russian.
- Klowden, M. J. and L. A. Bulla, Jr. 1984. Oral toxicity of *Bacillus thuringiensis* subsp. *israelensis* to adult mosquitoes. *Appl. Environ. Microbiol.* 48(3):665-667.
- Marten, G. G. 1986. Indigestible phytoplankton for mosquito control. *Parasitol. Today* 2(5):150-151.
- Mohamed, A. K. A. and F. R. S. Nelson. 1985. Pathogenicity of *Metarhizium anisopliae* var. *anisopliae* to mosquito larvae. *J. Entomol. Sci.* 20(4):398-404.
- Mueller, P. 1984. Properties of *Bacillus thuringiensis* var. *israelensis* and its effect on mosquito larvae (Diptera: Culicidae). *Angew. Parasitol.* 25(4):207-214. In German.
- Nnakumana, E. S. 1986. Some studies on pathoge-

BIOLOGICAL CONTROL AND BIOLOGICAL CONTROL AGENTS

- Andreadis, T. G. 1986. Characterization of a cytoplasmic polyhedrosis virus affecting the mosquitoes *Culex restuans*. *J. Invertebr. Pathol.* 47(2):194-202.
- Bailey, D. L. et al. 1986. A rapid radioimmunoassay for the detection of *Mansonia* antigen (Diptera: Culicidae): its potential use as a sensitive method

- nicity of *Coelomomyces stegomyiae* against mosquito larvae in the laboratory. *Insect Sci. Appl.* 7(1):93-98.
- Pandare, D. and R. Romand. 1986. Predatory capacity of *Epiplatys spilargyreus* (Pisces: Cyprinodontidae) from western Africa against culicid larvae (Diptera). *Acta Oecol-Oecol. Appl.* 7(2):201-210. In French.
- Pfannenstiel, M. et al. 1985. Stability of the larvicidal activity of *Bacillus thuringiensis* subsp. *israelensis*: amino acid modification and denaturants. *Appl. Environ. Microbiol.* 50(5):1196-1199.
- Purrini, K. et al. 1986. On pathogenic agents infecting mosquito larvae (*Anopheles* spp. and *Culex* spp.) in Tanzania. *Anz. Schadlingsk. Pflanz. Umivelt.* 59(3):58-62. In German.
- Schoof, D. D. et al. 1986. Evaluation of predator-prey relationships using an enzyme immunoassay. *Ann. Entomol. Soc. Am.* 79(1):91-95.
- Shumkov, M. A. 1985. [The influence of vegetation on the intensity of the consumption of mosquito larvae and pupae by the fry of food-fish.] *Meditsinskaya Parazitologiya i Parazitarnye Bolezni* 5:71-74. In Russian.
- Snelson, F. F. et al. 1986. A melanistic female mosquito fish, *Gambusia affinis holbrooki*. *Amer. Midland Naturalist* 115(2):413-415.
- Sokolova, E. A. et al. 1985. *Bacillus thuringiensis* Berl. natural strains pathogenous for blood-sucking mosquitoes. *Med. Parazitol. Parazit. Bolezni* 3:35-41. In Russian.
- Talbot, C. W. et al. 1986. Fish species composition in New Jersey salt marshes: effects of marsh alterations for mosquito control. *Trans. Amer. Fish Soc.* 115(2):269-278.
- Tingley, G. A. and R. M. Anderson. 1986. Environmental sex determination and density dependent population regulation in the entomogenous nematode *Romanomermis culicivora*. *Parasitol.* 92(2):431-450.
- Tsiu-yan, W. 1986. A pathological study on mosquito larvae treated with *Bacillus thuringiensis* var. *israelensis*. *Acta Entomol. Sinica* 29(1):41-48.
- Urabe, K. et al. 1986. Studies on *Sympetrum frequens* (Odonata: Libellulidae) nymphs as natural enemies of mosquito larvae, *Anopheles sinensis*, in rice fields. III. Estimation of the prey consumption rate in the rice fields. *Jap. J. Appl. Entomol. and Zool.* 30(2):129-135.
- Vitlin, L. M. 1985. [Selection for feeding of some tropical cyprinodont fish (order Cyprinodontiformes) on larvae of malaria mosquitoes in the presence of other food objects (from experimental data). Communication 1. Selection of a model object of feeding.] *Meditsinskaya Parazitologiya i Parazitarnye Bolezni*. 5:67-70. In Russian.
- Vitlin, L. M. and M. M. Artem'ev. 1985. [Selectivity of the feeding of tropical cyprinodont fishes (order Cyprinodontiformes) on the larvae of malarial mosquitoes in the presence of other food objects (based on experimental data). 2. A comparison of 6 fish species]. *Med. Parazitol.* (6):52-4. In Russian.
- Yousten, A. A. et al. 1985. Selective medium for mosquito-pathogenic strains of *Bacillus sphaericus*. *Appl. Environ. Microbiol.* 49(6):1532-1533.

BOOKS, BOOKLETS, AND REPORTS

- Anonymous. 1985. New Orleans Mosquito Control Board 1985 Annual Report. 30 pp.
- Bennett, G. W. and J. M. Owens. (Eds.) 1986. *Advances in Urban Pest Management*. Van Nostrand Reinhold, New York. 448 pp.
- Campbell, W. C. and R. S. Rew. (Eds.) 1986. *Chemotherapy of Parasitic Diseases*. Plenum, New York. 655 pp.
- Chapman, H. C. and E. B. Johnson. 1986. The mosquitoes of Louisiana. LA Mosquito Control Assoc. Tech. Bull no. 1 (Revised). 17 pp.
- Cheng, T. C. (Ed.) 1984. *Comparative Pathobiology, vol. 7: Pathogens of Invertebrates, Application in Biological Control and Transmission Mechanisms*. Proc. 13th Ann. Mtg. Soc. Invertebrate Path., 1980. New York, Plenum Press. 278 pp.
- Karabatsos, N. (Ed.) 1985. *International catalog of arboviruses including certain other viruses of vertebrates*. 3rd edition. Amer. Soc. Trop. Med. Hyg., P. O. Box 29837, San Antonio, TX 78229, USA 1,147 pp.
- Moussiégt, O. 1986. Mosquitoes of France, Bibliography and Assessment. Museum National d'Histoire Naturelle, Inventaires de Faune et de Flore. Fasc. 30:1-180. In French.
- Nowell, W. R. 1985. Contents and Index for the Proceedings and Papers of the Annual Conferences of the California Mosquito and Vector Control Association, Inc., 1930-1982. California Mosquito and Vector Control Assoc., Sacramento. 120 pp.
- Tiru, M. and W. Hennessen, Eds. 1985. *Diagnostics and Vaccines for Parasitic Diseases. Developments in Biological Standardization, Vol. 62:1-158*. S. Karger A. G., Basel.
- Wery, M. (Ed.) 1985. *Malaria in Africa, changes in continuity*. International Colloquium, 14-15 December, 1984, Antwerp. *Ann. Soc. Belge Med. Trop.* 65(Supplement 2) 233 pp. [Some of the papers most pertinent to mosquito control are listed separately.]

CHEMICAL CONTROL

- Chadee, D. D. 1985. An evaluation of malathion ULV spraying against caged and natural populations of *Aedes aegypti* in Trinidad, West Indies. *Cah. ORSTOM Ent. Med. Parasitol.* 23(2):71-74.
- Cunningham, P. A. and L. E. Meyers. 1986. Dynamics of diflubenzuron (Dimilin^R) concentrations in water and sediment of a supratidal saltmarsh site following repetitive aerial applications for mosquito control. *Environ. Pollution A. Ecol. and Biol.* 41(1):63-87.
- Das, P. K. et al. 1986. Vernacide, a new insecticide impregnated paint for controlling mosquito vector *Culex quinquefasciatus* and cockroach *Periplaneta americana* Indian J. Med. Res. 83(March):268-270.
- Das, P. K. et al. 1986. Efficacy of Arosurf—a monomolecular surface film, in controlling *Culex quinquefasciatus* Say, *Anopheles stephensi* Liston and *Aedes aegypti* (L.). *Indian J. Med. Res.* 83(March):271-276.

- Eross, J. et al. 1985. [Experiences of helicopter mosquito control along the River Danube in Pest County, in the years 1981–84.] Egeszsegstudomány 29(2):83–88. In Hungarian.
- Hemingway, J. et al. 1986. The use of ELISA demonstrates the absence of *Culex* organophosphorus-resistance-associated esterases in *Anopheles* species. Pestic. Biochem. Physiol. 25(3):327–335.
- Kagan, J. and E. D. Kagan. 1986. The toxicity of benzo (alpha) pyrene in the mosquito *Aedes aegypti*, in the dark and in the presence of ultraviolet light. Chemosphere 15(3):243–252.
- Marcard, M. et al. 1986. The effect of crude methanolic extracts of *Ajuda* spp. on postembryonic development of different mosquito species. J. Appl. Entomol.—Zeitschr. Angew. Entomol. 101(2): 146–153.
- Philogene, B. J. R. et al. 1985. Effect of khellin and 8-methoxypsoralen on the development and survival of *Aedes atropalpus*. Can. Entomol. 117(9):1153–1157.
- Raafat, H. R. and N. A. Ali. 1984. Notes on the use of malathion as a vector control in Iraq. Bull. Endemic Dis. 24/25(1/4):21–25.
- Saxena, S. C. and L. Sumithra. 1985. Laboratory evaluation of leaf extract of a new plant to suppress the population of malaria vector *Anopheles stephensi* Liston (Diptera: Culicidae). Current Sci. India. 54(4):201–202.
- Schaefer, C. H. et al. 1985. Efficacy and chemical persistence of two highly active carbamate developmental inhibitors. J. Agr. Food Chem. 33(6):1045–1048.
- Thomas, A. and M. K. K. Pillai. 1986. Toxicity and irritability of K-Orthrine against 4 species of mosquitoes. Entomol 11(1):29–34.
- Lengemann, F. W. et al. 1986. ²⁰³Hg-labelled *Dirofilaria immitis* microfilariae in mice and dogs. Parasitol. 92(2):463–470.
- Lindsay, S. W. 1986. The migration of infective *Brugia pahangi* within the mosquito *Aedes aegypti*. Parasitol. 92(2):369–378.
- Maizels, R. et al. 1986. Secreted and surface antigens from larval stages of *Wuchereria bancrofti* the major human lymphatic filarial parasite. Mol. Biochem. Parasitol. 19(1):27–34.
- Mistry, S. S. and D. Subrahmanyam. 1986. Unresponsiveness of lymphocytes in patent filarial infection—Modulation of diethylcarbamazine. Trop. Med. Parasitol. 37(1):25–27.
- Narayanan, P. R. et al. 1986. Reduced lymphocyte response to mitogens in patients with Bancroftian filariasis. Trans. Roy. Soc. Trop. Med. Hyg. 80(1):78–84.
- Paranjape, R. S. et al. 1986. Identification of circulating parasitic antigen in patients with bancroftian filariasis. Clin. Exper. Immunol. 63(3):508–516.
- Rzeczpyk, C. M. et al. 1986. Simulation of neutrophil respiratory burst and iodination reaction by opsonized microfilariae of *Dirofilaria immitis*. Austral. J. Exp. Biol. Med. Sci. 64(1):43–52.
- Weinstein, P. P. 1986. Filariasis: problems and challenges. Amer. J. Trop. Med. Hyg. 35(2):221–233.
- Xia, X. 1985. A study on artificial infection of mosquitoes with microfilaria of *Setaria* spp. Acta Vet. Zootech. Sinica. 16(2):143–144. In Chinese.

GENETICS AND GENETIC CONTROL

- Coluzzi, M. et al. 1985. Chromosomal inversion intergradation and incipient speciation in *Anopheles gambiae*. Boll. Zoologia 52(1/2):45–63.
- Kanda, T. et al. 1984. Cytogenetic and hybridization studies among 3 strains morphologically varied and belonging to *Anopheles minimus* Theobald from Japan and Thailand. Cytologia 49(4):865–881.
- King, M. and N. Pasteur. 1985. A rapid technique for obtaining air dried mitotic chromosomes from mosquito egg rafts. Stain Technol. 60(2):119–120.
- Marchi, A. and K. S. Rai. 1986. Chromosome banding homologies in three species of *Aedes* (*Stegomyia*). Can. J. Genet. Cytol. 28(2):198–202.
- Shetty, N. J. and B. N. Chowdaiah. 1985. Inheritance of greyish brown (gb) and dark (da) larvae, autosomal recessive mutants in the filaria vector *Culex quinquefasciatus*. Current Sci. India 54(3):153–155.
- Ye, B. et al. 1985. A comparison of salivary chromosome and isozymes of three zymes of *Anopheles sinensis* in Xuzhou and Yixing Districts China. Acta. Genet. Sin. 12(4):289–294. In Chinese.

MALARIA

- Anonymous. 1985. World malaria situation 1983. WHO Weekly Epidemiol. Record. 60(44):337–341.
- Anonymous. 1985. Informative note on an atypical case of malaria. Bol. Microbiol. Semanal 4:1. In Spanish.
- Atwell, R. B. and A. Rezakhani. 1986. The effectiveness of a latex agglutination test for the detection of circulating antigen of *Dirofilaria immitis* in dogs. Austral. Vet. J. 63(4):130.
- Chandra, R. et al. 1986. Comparison of filaria skin test and microfilaria demonstration in the diagnosis of lymphatic filariasis. Indian J. Med. Res. 83:171–174.
- Chen, C.-C. and B. R. Laurence. 1985. The encapsulation of the sheaths of microfilariae of *Brugia pahangi* in the haemocoel of mosquitoes. J. Parasitol. 71(6):834–835.
- Chiang, G. L. et al. 1986. Field and laboratory observations on *Coquillettidia crassipes* in relation to transmission of *Brugia malayi* in peninsular Malaysia. Ann. Trop. Med. Parasitol. 80(1):117–122.
- Chiang, G. L. et al. 1986. Field studies on the surveillance of *Coquillettidia crassipes* (Van der Wulp) and the isolation of a strain of *Cardiofilaria* in peninsular Malaysia. Ann. Trop. Med. Parasitol. 80(2):235–244.
- Jamal, S. 1985. Dramatic manifestations of filarial infection (*W. bancrofti*). Lymphol. 18(4):145–147.
- Kimura, E. et al. 1985. Low-density microfilaremia in subperiodic bancroftian filariasis in Samoa. Bull. WHO 63(6):1089–1096.

- Anonymous. 1986. Erythroderma resembling Sezary syndrome after treatment with Fansidar and chloroquine. *Brit. Med. J.* 292:1107-1108.
- Anonymous. 1986. Malaria and the new genetics. *Lancet* 8485:867.
- Bafort, J. M. 1986. A parasitological survey of the vector *A. atroparvus*. *Ann. Trop. Med. Parasitol.* 80(1):149-153.
- Bagshawe, A. 1986. Malarial prophylaxis. *Med. J. Austral.* 144(6):332.
- Barker, R. H. Jr. et al. 1986. Specific DNA probe for the diagnosis of *Plasmodium falciparum* malaria. *Science* 231(4744):1434-1436.
- Benzerroug, P. et al. 1986. Detection of antibodies of *Plasmodium vivax* by indirect immunofluorescence: influence of the geographic origin of antigens and serum samples. *Amer. J. Trop. Med. Hyg.* 35(2):255-258.
- Bialy, H. 1986. Cloned malaria vaccine enters the clinic. *Bio/Technol.* 4(5):384.
- Breuer, W. V. 1985. How the malaria parasite invades its host cell, the erythrocyte. *Int. Rev. Cytol.* 96:191-238.
- Burcot, T. R. and R. A. Wirtz. 1986. Immunoassays of malaria sporozoites in mosquitoes. *Parasitol. Today* 2(6):155-157.
- Carnevale, P. et al. 1985. The dynamic of malaria transmission in the savanna and the degraded forest areas of the neighborhood of Brazzaville Congo. *Cah. ORSTOM Ser. Entomol. Med. Parasitol.* 23(2):95-116. In French.
- Chuley, J. D. et al. 1986. Malaria transmitted to humans by mosquitoes infected from cultured *Plasmodium falciparum*. *Am. J. Trop. Med. Hyg.* 35(1):66-69.
- Collins, W. E. et al. 1985. Studies on a newly isolated strain of *Plasmodium brasilianum* in *Aotus* and *Saimiri* monkeys and different anophelines. *J. Parasitol.* 71(6):767-770.
- Collins, W. E. et al. 1985. Infectivity of two strains of *Plasmodium vivax* to *Anopheles albitalarsis* mosquitoes from Colombia. *J. Parasitol.* 71(6):771-773.
- Collins, W. E. et al. 1985. Infection of *Aotus agarae boliviensis* monkeys with the R O strain of *Plasmodium cynomolgi*. *J. Parasitol.* 71(6):848-850.
- Collins, W. E. et al. 1986. Infection of mosquitoes with *Plasmodium vivax* from chimpanzes using membrane feeding. *Am. J. Trop. Med. Hyg.* 35(1):56-6.
- Coosemans, M. H. 1985. [Comparison of malarial endemicity in a rice-growing zone and in a cotton-growing zone in the Rusizi Plain, Burundi.] *Ann. Soc. Belge Med. Trop.* 65(Suppl.2):187-200. In French.
- Dutta, P. et al. 1986. Malaria chemotherapy through interference of riboflavin metabolism. *Lancet* no. 8482:677.
- Ellis, M. E. 1986. Vivax malaria acquired in Trinidad, a malaria free area. *Brit. Med. J.* 292:1048-1049.
- Ferreira, A. et al. 1986. Inhibition of development of exoerythrocytic forms of malaria parasites by gamma interferon. *Science* 232 (4752):881-883.
- Haberkorn, A. and B. Herbold. 1986. Investigations on Omega-aminocyl derivatives active against malaria. *Drug Research* 36-1(2):230-233. In German.
- Hatton, C. S. R. et al. 1986. Frequency of severe neutropenia associated with amodiaquine prophylaxis against malaria. *Lancet* 8478:411-413.
- Ho, M. et al. 1986. Antigen-specific immunosuppression in human malaria due to *Plasmodium falciparum*. *J. Infect. Dis.* 153(4):763-771.
- Janney, S. K. et al. 1986. Excess release of ferriheme in G6PD-deficient erythrocytes: Possible cause of hemolysis and resistance to malaria. *Blood* 67(2):331-333.
- Kharazmi, A. 1986. Antimalarial drugs and human neutrophil oxidative metabolism. *Trans. Roy. Soc. Trop. Med. Hyg.* 80(1):94-98.
- Mahajan, R. C. et al. 1986. Immunosuppression in murine malaria: role of activated macrophages. *Austral. J. Exp. Biol. Med. Sci.* 64(1):63-66.
- Mons, B. et al. 1985. Synchronized erythrocytic schizogony and gametocytogenesis of *Plasmodium berghei* in vivo and in vitro. *Parasitol.* 91(3):423-430.
- Muller, H. E. 1986. Various theories on the prophylaxis of chloroquine-resistant malaria. *Deut. Med. Wochenschr.* 111 (18):721. In German.
- Mutambu, S. I. et al. 1986. Chloroquine resistant *Plasmodium falciparum* malaria in Zimbabwe. *Brit. Med. J.* 292(6519):522.
- Oloo, A. J. et al. 1986. Falciparum malaria highly resistant to chloroquine in western Kenya. Case report. *Trans. Roy. Soc. Trop. Med. Hyg.* 80(1):166.
- Oppenheimer, S. J. and P. Cashin. 1986. Serum and red cell folate levels associated with malarial parasitemia. *Trans. Roy. Soc. Trop. Med. Hyg.* 80(1):169-170.
- Ossi, G. T. 1984. Malaria in Iraq from 1980 to 1983. *Bull. Endemic Dis.* 24/25(1/4):5-20.
- Pal, R. A. and A. Aziz. 1985. A survey of malarial parasite and anopheline mosquitoes in Rawalpindi-Islamabad area. *J. Pakistan Med. Assoc.* 35(3):69-72.
- Pallangyo, D. K. et al. 1986. Metronidazole for falciparum malaria. *Lancet* 8486:922.
- Pasvol, G. 1986. The anaemia of malaria. *Quart. J. Med.* 58(227):217-220.
- Ramsey, J. M. et al. 1986. Field trial in Chiapas, Mexico, of a rapid detection method for malaria in anopheline vectors with low infection rates. *Amer. J. Trop. Med. Hyg.* 35(2):234-238.
- Robert, V. et al. 1985. [The transmission of malaria in a wooded savanna zone and a rice-growing zone in the vicinity of Bobo Dioulasso (Burkina Faso).] *Ann. Soc. Belge Med. Trop.* 65(Suppl. 2):201-214. In French.
- Rossignol, P. A. et al. 1986. Increased biting rate and reduced fertility in sporozoite-infected mosquitoes. *Amer. J. Trop. Med. Hyg.* 35(2):277-279.
- Saxena, N. et al. 1986. Purification and properties of lactate dehydrogenase from *Plasmodium knowlesi* and erythrocytes of the rhesus monkey. *Austral. J. Exp. Biol. Med. Sci.* 64(1):53-62.
- Sharma, G. K. and H. Sahu. 1985. Monitoring, appraisal and evaluation process of the national malaria eradication programme (India). *J. Com. Dis.* 17(2):167-176.
- Sharma, V. P. et al. 1985. Follow up studies of malaria epidemic in villages of Shahjahanpur

- District Uttar Pradesh India. Indian J. Malariol. 22(2):119-122.
- Shihab, K. I. et al. 1984. The elimination of indigenous malaria from Al-Majd Nahia Rumaitha District, Iraq. An example of the necessity of continuous vigilance. Bull. Endemic Dis. 24/25(1/4): 33-43.
- Sluiters, J. F. et al. 1986. The establishment of *Plasmodium berghei* in mosquitoes of a refractory and a susceptible line of *Anopheles atroparvus*. Zeit. Parasitenk. Parasitol. of Res. 72(3):313-322.
- Tapchaisiri, P. et al. 1986. Species and stage specificities of circumsporozoite protein of *Plasmodium falciparum*. Mosquito-Borne Diseases Bull. 2(3):67-68.
- Taylor, P. 1985. The malaria problem in Zimbabwe. Epidemiology. Cent. Afr. J. Med. 31(9):163-166.
- Wagner, W. H. 1986. Fight against malaria: chemotherapy and immunoprophylaxis. 2. Immunoprophylaxis. Arzneim-Forsch.-Drug Research 36-1(2):163-175. In German.
- Wagner, W. H. 1986. Fight against malaria—Chemotherapy and immunoprophylaxis. 3. Immune response of the infected organism—perspectives of the fight against malaria. Arzneim-Forsch.-Drug Res. 36-1(3):409-415. In German.
- Waki, S. et al. 1986. A new technique for drug susceptibility tests for *Plasmodium falciparum* by ethidium bromide fluoroassay. Trans. Roy. Soc. Trop. Med. Hyg. 80(1):47-49.
- Zakharova, N. F. 1985. [Sexual sterilization of the vector of malaria *Anopheles sacharovi* Favre.] Med. Parazitol. Nov-Dec 1985 (6):47-51. In Russian.
- Zhao, Y. et al. 1986. Antimalarial agents. 2. Artesunate, an inhibitor of cytochrome oxidase activity in *Plasmodium berghei*. J. Nat. Prod.-Lloydia 49(1):139-142.

MISCELLANEOUS

- Anonymous. 1985. In memoriam, Edwin J. Hazard (1935-1985). J. Invert. Pathol. 46:217-218.
- Anonymous. 1986. Proceedings of a mosquito workshop held during the Fifth Entomological Congress, Grahamstown, 4 July 1985. J. Entomol. Soc. S. Afr. 49(1):171-172.
- Bao-Lin, L. 1986. Recent advances in mosquito control. Acta Entomol. Sinica. 29(1):110.
- Rasnitsyn, S. P. 1985. [Mass cultivation of *Anopheles sacharovi* Favre.] Med. Parazitol. Nov-Dec. 1985, (6):54-6. In Russian.
- Reeves, W. C. 1986. The history of mosquito control in California. Proc. Papers Fifty-third Ann. Conf. California Mosquito and Vector Control Assoc., 1985. pp. 37-40.
- Rodhain, F. 1985. Vectorial transmission: present status of research and future prospects. Bull. Inst. Pasteur 83(3):221-243. In French.
- Shalaby, A. M. et al. 1985. Sexing of living larvae and pupae of *Culex pipiens molestus* (Diptera: Culicidae). Folia Morphol. (Prague) 33(3):284-286.
- Shutte, C. H. J. 1985. Combating parasitic diseases of man in South Africa. S. Afr. J. Sci. 81(8): 451-452.

TAXONOMY AND DISTRIBUTION

- Adamovic, Z. 1986. Anophelines (Diptera: Culicidae) in Gruza, Levac, and Temnic, Serbia. Acta Vet-Beograd. 36(1):39-44.
- Chadee, D. D. 1985. The occurrence of *Aedes taeniorhynchus* on Monos Island, Trinidad, West Indies. J. FL. Anti-mosquito Assoc. 56(1):22-23.
- Chadee, D. D. et al. 1985. The distribution of *Haemogogus* mosquitoes on small islands off Trinidad, W. I. Mosquito Systematics 17(2):147-152.
- Harbach, R. E. 1985. Pictorial keys to the genera of mosquitoes, subgenera of *Culex* and the species of *Culex* (*Culex*) occurring in southwestern Asia and Egypt, with a note on the subgeneric placement of *Culex deserticola* (Diptera: Culicidae). Mosquito Systematics 17(2):83-107.
- Huang, Y.-M. 1986. *Aedes* (*Stegomyia*) *bromeliae* (Diptera: Culicidae), the yellow fever virus vector in East Africa. J. Med. Entomol. 23(2):196-200.
- Huang, Y.-M. 1985. A new African species of *Aedes* (Diptera: Culicidae). Mosquito Systematics 17(2): 108-120.
- Ishii, T. 1986. Status of *Culex pipiens pallens* in the *Culex pipiens* complex. Akaieka Newsletter 10(3): 40-49.
- Ishii, T. 1986. Newly designated neotype for *Culex pipiens* Linnaeus (Diptera: Culicidae)—Is there any significance to establish the neotype with the Swedish mosquito? Akaieka Newsletter 10(4):93-99.
- Jaenson, T. G. T. 1985. Records of *Aedes* and *Culiseta* mosquitoes (Diptera: Culicidae) from animal sheds in Northern Sweden. Entomol. Tidskr. 100(4):129-131.
- Kitron, U. and H. Pener. 1986. Distribution of mosquitoes (Diptera: Culicidae), in Northern Israel: A historical perspective. II Culicine mosquitoes. J. Med. Entomol. 23(2):182-185.
- Mattos, S. D. S. et al. 1985. Catalogue of the collection from the laboratory of entomology research center Rene-Rachou Oswaldo Cruz Foundation Brazil IV. Genus *Aedes* (Diptera: Culicidae). Cienc. Cult. 37(9):1494-1502. In Portuguese.
- Miyagi, I. et al. 1985. A survey of the mosquito fauna in Palawan, Mindanao and North Luzon, Republic of the Philippines. Mosquito Systematics 17(2):133-146.
- Rambajan, I. 1985. A note on *Anopheles apicimacula* Dyar and Knab, 1906, from Guyana, South America. Mosquito Systematics 17(2):132.
- Ramos, H. Da C. 1986. Research on the mosquitoes of Angola (Diptera: Culicidae) XVIII—Description of *Uranotaenia* (*Uranotaenia*) *machadoi* sp. nov. Mosquito Systematics 18(1):110-117.
- Reinert, J. F. 1985. A description of *Scutomyia*, a subgenus resurrected for the *Albolineatus* group of the genus *Aedes* (Diptera: Culicidae). Mosquito Systematics 17(2):121-131.
- Rioux, J. A. et al. 1985. [First mention of *Culex* (*Culex*) *havitator* Dyar & Knab, 1906 in Guadeloupe.] Ann. Parasitol. Hum. Comp. 60(4):499-502. In French.
- Singh, N. and B. N. Nagpal. 1985. Mosquitoes of Mandla District Madhya Pradesh India. Indian J. Malariol. 22(2):111-114.
- Takai, K. 1986. Discrimination among strains of the mosquito *Anopheles leucosphyrus* group by

- electrophoresis of proteins. Jap. J. Genet. 61(1):45-60.
- Toma, T. and I. Miyagi. 1986. The mosquito fauna of the Ryukyu Archipelago with identification keys, pupal descriptions, and notes on biology, medical importance and distribution. Mosquito Systematics 18(1):1-109.
- Tsukamoto, M. et al. 1985. A revised checklist of the Philippine mosquitoes. Trop. Biomed. 2:149-160.
- White, G. B. 1985. *Anopheles bwambae* sp.n., a malaria vector in the Semliki Valley, Uganda, and its relationships with other sibling species of the *An. gambiae* complex (Diptera: Culicidae). Syst. Entomol. 10(4):501-522.
- Xavier, S. H. et al. 1985. Catalogue of the collection from the laboratory of entomology research center Rene-Rachou Oswaldo Cruz Foundation Brazil V. Genera *Uranotaenia* and *Deinocerites* (Diptera: Culicidae). Cienc. Cult. 37(9): 1502-1505. In Portuguese.
- VIRUS DISEASES
- Anonymous. 1985. Yellow fever in 1984. WHO Weekly Epidemiol. Record 60(43):329-333.
- Ballard, J. W. O. and I. D. Marshall. 1986. An investigation of the potential of *Aedes camptorhynchus* (Thom.) as a vector of Ross River virus. Austral. J. Exp. Biol. Med. Sci. 64(2):197-198.
- Bhattacharya, S. et al. 1986. Density of *Culex vishnui* and appearance of J. E. antibody in sentinel chicks and wild birds in relation to Japanese encephalitis cases. Trop. Geogr. Med. 38(1):46-50.
- Byrne, B. 1984. Viral polyarthritis. Med. J. Austral. 140(7):445-446.
- Carrada Bravo, T. et al. 1984. [The ecology of dengue and *Aedes aegypti*. Preliminary investigation. Fourth part.] Publica Mexico 26(5):501-516. In Spanish.
- Condreay, L. D. and D. T. Brown. 1986. Exclusion of superinfecting homologous virus by Sindbis virus-infected *Aedes albopictus* (mosquito) cells. J. Virol. 58(1):81-86.
- Deinhardt, F. 1986. Can mosquitoes transmit hepatitis viruses, HTLV-III viruses, and AIDS-related viruses? Deut. Med. Wochenschr. 111(20):800-801.
- Elliott, R. M. and M. L. Wilkie. 1986. Persistent infection of *Aedes albopictus* C6/36 cells by bunyamwera virus. Virol. 150(1):21-32.
- Emmons, R. C. et al. 1986. Surveillance for arthropod-borne viral activity and disease in California during 1984. Proc. Papers Fifty-third Ann. Conf. California Mosquito and Vector Control Assoc., 1985, pp. 1-4.
- Gonzalez, J. P. et al. 1985. [Dengue in Burkina Faso (ex-Upper Volta): seasonal epidemic in an urban environment in Ouagadougou.] Soc. Pathol. Exot. Fil. 78(1):7-14. In French.
- Hardy, J. L. et al. 1986. Comparison of a 1984 Los Angeles strain of SLE virus with earlier California strains of SLE virus: mouse virulence, chicken viremogenic, RNA oligonucleotide and vector competence characteristics. Proc. Papers Fifty-third Ave. Conf. California Mosquito and Vector Control Assoc., 1985, pp. 10-15.
- Hebert, J. R. 1986. AIDS and mosquitoes. Med. J. Austral. 144(5):69.
- Konishi, E. and J. Takahashi. 1985. Detection of chikungunya virus antigen in *Aedes albopictus* mosquitoes by enzyme-linked immunosorbent assay. J. Virol. Methods 12(3-4):279-286.
- Labuda, M. and O. Kozuch. 1986. Transovarial transmission of Tahyna virus by *Aedes aegypti* mosquitoes (strain Bangkok). Acta Virolog. 30(2):171.
- Lhuillier, M. et al. 1985. Rural epidemic of yellow fever with interhuman transmission in the Ivory Coast in 1982. Bull. WHO 63(3):527-536. In French.
- L'vov, D. K. et al. 1984. [An outbreak of arbovirus infection in the Tajik SSR caused by Issyk-Kul' virus (Issyk-Kul' fever).] Voprosy Virusologii 29(1):89-92. In Russian.
- L'vov, D. K. et al. 1985. [Isolation of the causative agent of Karelian fever from species of the mosquito *Aedes*.] Voprosy Virusologii 30(3):311-313. In Russian.
- Reeves, W. C. 1986. Perspectives and predictions following the St. Louis encephalitis outbreak in southern California. Proc. Papers Fifty-third Ann. Conf. California Mosquito and Vector Control Assoc., 1985, pp. 30-31.
- Sherwood, A. and V. Stollar. 1984. Evidence that ribavirin is transported in *Aedes albopictus* cells by the nucleoside transport system. Antiviral Res. 4(6):317-324.
- Shroyer, D. A. 1986. Transovarial maintenance of San Angelo virus in sequential generations of *Aedes albopictus*. Amer. J. Trop. Med. Hyg. 35(2):408-417.
- Tesh, R. B. et al. 1986. Biological and antigenic characterization of Netivot virus, an unusual new *Orbivirus* recovered from mosquitoes in Israel. Amer. J. Trop. Med. Hyg. 35(2):418-428.
- Volsky, D. J. et al. 1986. Antibodies to HTLV-III/LAV in Venezuelan patients with acute malarial infections. N. Engl. J. Med. 314(10):647.
- Zuckerman, A. J. 1986. AIDS and insects. Brit. Med. J. 292:1094-1095.
- WATER MANAGEMENT
- Gophen, M. and M. Gophen. 1986. Trophic relations between two agents of sewage purification systems: algae and mosquito larvae. Agr. Wastes 15(3):159-168.
- Vanhara, J. 1985. Influence of the waterworks constructed near Nove-Mlyny Southern Moravia Czechoslovakia on the mosquito community (Culicidae: Diptera). Ekologia-CSSR 4(3):251-266.