

SELECTED LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

1985, Part 4

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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. 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 PHYSIOLOGY

- Adham, F. K. and A. Shourky. 1984. Juvenile hormone analogues: effect on eggs of *Aedes caspius* Pallas (Diptera: Culicidae). *J. Egyptian Soc. Parasitol.* 14(2):525-530.
- Balashov, Y. S. 1984. [The role of morphophysiological characteristics of bloodsucking arthropods on vector potential.] *Parazitologicheskii Sbornik* 32:22-42. In Russian.
- Borovsky, D. and B. R. Thomas. 1985. Purification and partial characterization of mosquito egg development neurosecretory hormone: evidence for gonadotropic and steroidogenic effects. *Arch. Insect Biochem. Physiol.* 2(3):265-282.
- Friend, W. G. 1985. Effects of mating, nutritional condition, and mouthpart separation on ingestion and destination of sugar and water by the mosquito *Culiseta inornata*. *Physiol. Entomol.* 10(2):137-144.
- Friend, W. G. 1985. Diet ingestion and destination in *Culiseta inornata* (Diptera: Culicidae): Effects of mouthpart deployment and contact of the fascicle and labellum with sucrose, water, saline, or ATP. *Ann. Entomol. Soc. Amer.* 78 (4):495-500.
- Galun, R., L. C. Koontz, and R. W. Gwadz. 1985. Engorgement response of anopheline mosquitoes to blood fractions and artificial solutions. *Physiol. Entomol.* 10(2):145-149.
- Gill, G. S. 1984. Production of antisera for the serological identification of bloodmeals of arthropods. *Trans. Roy. Soc. Trop. Med. Hyg.* 78(2):233-234. Correction of listing in Vol. 1(2):270.
- Graf, R. and H. Briegel. 1985. Isolation of trypsin isozymes from the mosquito *Aedes aegypti* (L.). *Insect Biochem.* 15(5):611-618.
- Hemingway, J. 1985. Malathion carboxylesterase enzymes in *Anopheles arabiensis* from Sudan. *Pestic. Biochem. Physiology.* 23(3):309-313.
- Laurence, B. R. and J. A. Pickett. 1985. An oviposition attractant pheromone in *Culex quinquefasciatus* Say (Diptera: Culicidae). *Bull. Entomol. Res.* 75 (2):283-290.
- Lu, Z. M. et al. 1984. [Gonotrophic cycle of *Anopheles sinensis* in the north of Yanchen, Jiangsu.] *J. Parasitol. Parasitic Dis.* 2(4):271. In Chinese.
- Miller, S. and R. J. Novak. 1985. Analysis of lipids by gas-liquid chromatography and complementary methods in four strains of *Aedes aegypti* mosquitoes. *Comp. Biochem. Physiol. B.* 81(1):235-240.
- Motara, M. A. et al. 1985. Argentophilic structures of

spermatogenesis in the yellow fever mosquito. *J. Hered.* 76(4):295-300.

- Parker, B. M. 1985. Effects of photoperiod on the induction of embryonic diapause in *Aedes taeniorhynchus* (Diptera: Culicidae). *J. Med. Entomol.* 22(4):392-397.
- Rasnitsyn, S. P., N. F. Zakharova and V. T. Demina. 1984. [Changes in insemination of female *Anopheles sacharovi* mosquitoes according to maintenance conditions.] *Med. Parazitol. Parazit. Bolezni* 1:6-10. In Russian.
- Readio, J. and R. Meola. 1985. Two stages of juvenile hormone-mediated growth of secondary follicles in *Culex pipiens*. *J. Insect Physiol.* 31(7):559-562.
- Rogo, L. M. N., G. B. White and R. C. Odhiambo. 1985. Salinity relationships of mosquitoes breeding in a brackish pond on the Kenya coast. *Insect Sci. Appl.* 6(1):91-95.
- Skultab, S. L. and B. F. Eldridge. 1985. Ovarian diapause in *Culex peus* (Diptera, Culicidae). *J. Med. Entomol.* 22(4):454-458.
- Wang, R. L., E. Y. Zhang and Z. L. Qian. 1984. [Observations on criteria of ovarian diapause in *Culex pipiens pallens* and its hormone control.] *J. Parasitol. Parasitic Diseases*, 2(4):228-231. In Chinese.
- Yoshida, M., T. Fujita, N. Kirihara, and M. Nakajima. 1985. Dehydrochlorination of *p,p*-DDT by cultured cells derived from ovarian tissues of *Culex pipiens* var. *molestus*. *Pesticide Biochem. Physiol.* 23(1):1-6.
- Zomer, E. and H. Lipke. 1983. Arylated proteins from the yellow-fever mosquito, *Aedes aegypti*. *Biochem. Soc. Trans.* 11(6):788.

ATTRACTANTS AND REPELLENTS

- Laurence, B. R. et al. 1985. Absolute configuration of mosquito oviposition attractant pheromone, 6-Acetoxy-5-Hexadecanolide. *J. Chem. Ecol.* 11(5):643-648.
- Pyrath, D. 1984. Ultrasonic pest repellers fail tests. *Agr. Res.* 32(13):14.
- Taylor, W. G. and C. E. Schreck. 1985. Chiral-Phase capillary gas chromatography and mosquito repellent activity of some oxazolidine derivatives of (+)- and (-)- citronellol. *J. Pharm. Sci.* 74(5):534-539.

BEHAVIOR, BIOLOGY, AND ECOLOGY

- Chiang, G. L. et al. 1984. Species composition, seasonal abundance and filarial infections of *Man-*

- sonia* in two ecotypes in Peninsular Malaysia. Trop. Biomed. (1):41-47.
- Chiang, G. L. et al. 1984. Biting activity, age composition and survivorship of *Mansonia* in two ecotypes in Peninsular Malaysia. Trop. Biomed. 1(2):151-158.
- Dye, C. 1984. Models for the population dynamics of the yellow fever mosquito, *Aedes aegypti*. J. Animal Ecol. 53(1):247-268.
- Liang, J. M. et al. 1984. [Observation on the nocturnal activity of *Anopheles minimus* in Rongxian County, Guangxi.] J. Parasitol. Parasitic Dis. 2(4):259. In Chinese.
- Livdahl, T. P. and G. Sugihara. 1984. Non-linear interactions of populations and the importance of estimating per capita rates of change. J. Animal Ecol. 53(2):573-580.
- Olson, J. K. and M. V. Meisch. 1985. Survey shows mosquito activity in rural and urban areas. Ark. Farm Res. 34(3):6.
- Reisen, W. K., N. F. Knop, and J. J. Peloquin. 1985. Swarming and mating behavior of laboratory and field strains of *Culex tarsalis* (Diptera: Culicidae). Ann. Entomol. Soc. Amer. 78(5):667-673.
- Rishikesh, M. A. et al. 1985. Seasonal variations in indoor resting *Anopheles gambiae* and *Anopheles arabiensis* in Kaduna, Nigeria. Acta Trop. 42(2):165-170.
- Sakakibara, M. et al. 1984. Activity of four stereoisomers of 6-acetoxy-5-hexadecanolide, the oviposition pheromone of culicine mosquitoes. Jap. J. Sanit. Zool. 35(4):401-403.
- Sharp, B. L., F. C. Quicke and E. J. Jansen. 1984. Aspects of the behavior of five anopheline species in the endemic malaria area of Natal. J. Entomol. Soc. Southern Africa. 47(2):251-258.
- Thu, M. M. et al. 1985. Preliminary biological study on two taxa of the *Anopheles balabacensis* complex in Burma. Jap. J. Genet. 60(4):373-380.
- Walker, E. D. and J. D. Edman. 1985. The influence of host defensive behavior on mosquito (Diptera, Culicidae) biting persistence. J. Med. Entomol. 22(4):370-372.
- BIOLOGICAL CONTROL AND
BIOLOGICAL CONTROL AGENTS**
- Alekeev, A. N. 1984. [The specificity of arthropods as the vectors of the agents of transmissible diseases and the type of symbiotic relations between them and pathogens.] Parazitologicheskii Sbornok 32:43-60. In Russian.
- Andreadis, T. G. 1985. Life cycle, epizootiology, and horizontal transmission of *Amblyospora* (Microspora: Amblyosporidae) in a univoltine mosquito, *Aedes stimulans*. J. Invert. Pathol. 46(1):31-46.
- Armstrong, J. L., G. F. Rohrmann and G. S. Beaudreau. 1985. Delta endotoxin of *Bacillus thuringiensis* subsp. *israelensis*. J. Bacteriol. 161(1):39-46.
- Awahmukalah, D. S. T. and M. A. Brooks. 1985. Search for a sensitive stage for aposymbiosis induction in *Culex pipiens pipiens* by antibiotic treatment of immature stages. J. Invert. Pathol. 45(1):54-59.
- Brown, K. L. 1985. Demographic and genetic characteristics of dispersal in the mosquitofish, *Gambusia affinis* (Pisces, Poeciliidae). Copeia No. 3:597-612.
- Carriere, B. 1985. Fire ants prey on mosquitoes. Agr. Res. 33(3):5.
- Cech, J. J. et al. 1985. Respiratory metabolism of mosquitofish, *Gambusia affinis*—Effects of temperature, dissolved oxygen, and sex difference. Environ. Biol. Fish 13(4):297-308.
- Chuah, M. L. K. and H. H. Yap. 1984. Studies on biological control potentials of *Toxorhynchites splendens* (Diptera: Culicidae). Trop. Biomed. 1(2):145-150.
- Cockrell, B. J. 1984. Effects of temperature and oxygenation on predator-prey overlap and prey choice of *Notonecta glauca*. J. Animal Ecol. 53(2):519-532.
- Curran, J. and J. M. Webster. 1984. Reproductive isolation and taxonomic differentiation of *Romanomermis culicivorax* Ross and Smith, 1976 and *R. communensis* Galloway and Brust, 1979. J. Nematol. 16(4):375-379.
- Dension, M. S. and J. D. Yarbrough. 1985. Binding of insecticides to serum proteins in mosquitofish (*Gambusia affinis*). Comp. Biochem. Physiol. C81(1):105-108.
- Dension, M. S., J. E. Chambers, and J. D. Yarbrough. 1985. Short-term interactions between DDT and endrin accumulation and elimination in mosquitofish (*Gambusia affinis*). Arch. Environ. Contam. Toxicol. 14(3):315-320.
- Dionne, M. 1985. Cannibalism, food availability, and reproduction in the mosquito fish (*Gambusia affinis*): a laboratory experiment. Amer. Naturalist 126 (1):16-23.
- Giblin, R. M. and E. G. Platzer. 1985. *Romanomermis culicivorax* parasitism and the development, growth, and feeding rates of two mosquito species. J. Invert. Pathol. 46(1):11-19.
- Goettel, M. S. 1984. A simple method for mass culturing entomopathogenic Hyphomycete fungi. J. Microbiol. Methods 3:15-20.
- Goettel, M. S., L. Sigler, and J. W. Carmichael. 1984. Studies on the mosquito pathogenic Hyphomycete *Culicinomyces clavisporus*. Mycologia 76(4):614-623.
- Haggett, K. D. et al. 1984. Biotechnological development of *Culicinomyces clavisporus*, a fungal pathogen of mosquito larvae. In Proc. Fourth Australian Appl. Entomol. Res. Conf. Adelaide. pp. 362-367.
- Hughes, A. L. Male size, mating success, and mating strategy in the mosquitofish *Gambusia affinis* (Poeciliidae). Behav. Ecol. Sociobiol. 17(3):271-278.
- Iizuka, T. and T. Yamamoto. 1984. Serological properties of the mosquitocidal protein of *Bacillus thuringiensis* and the morphology of its parasporal crystal. J. Faculty Agr. Hokkaido University 62(1):98-114.
- Isaeva, N. M. et al. 1984. [Ecology of *Romanomermis nielsenii* (Nematoda, Mermithidae), a parasite of blood-sucking mosquitoes.] Vestnik Zoologii 6:70-71. In Russian.
- LaFond, M. M., Christensen, B. M. and B. A. Lasee. 1985. Defense reactions of mosquitoes to filarial worms: potential mechanism for avoidance of the response by *Brugia pahangi* microfilariae. J. Invert. Pathol. 46(1):26-30.

- Lee, D., S. J. Ban and H. S. Yu. 1984. Mosquito control evaluation on isolates of *Bacillus thuringiensis* var. *israelensis* and *Bacillus sphaericus* against *Culex pipiens pallens* in the laboratory. [Abstract]. Korean J. Entomol. 14(1):93-94.
- Lloyd, L. N. and J. F. Tomasov. 1985. Taxonomic status of the mosquitofish *Gambusia affinis* (Poeciliidae) in Australia. Austral. J. Marine and Freshwater Res. 36(3):447-450.
- Margalit, J. and H. Bobroglo. 1984. The effect of organic materials and solids in water on the persistence of *Bacillus thuringiensis* var. *israelensis* Serotype H-14. Zeits. Angewand. Entomol. 97(5):516-520.
- Mgeladze, V. M. 1984. [Comparative larvipagous effectiveness of the mosquito fish *Gambusia affinis affinis*, *Gambusia affinis holbrooki* (Girard, 1859), *Aplocheilichthys latipes* (Nichols, 1943), and the Amur moroco *Pseudorasbora parva* (Schlegel, 1842).] Soobshcheniya Akademii Nauk Gruzinskoi SSR 114(2): 413-416. In Russian.
- Mulla, M. S. and H. A. Darwazeh. 1985. Efficacy of formulations of *Bacillus thuringiensis* H-14 against mosquito larvae. Bull. Soc. Vector Ecol. 10(1): 14-19.
- Murdoch, W. W. et al. 1984. Effects of the general predator, *Notonecta* (Hemiptera) upon a freshwater community. J. Animal Ecol. 53(3):791-808.
- Ohana, B., J. Margalit, and Z. Barak. 1985. A method for identifying colonies of bacteria possessing mosquito larvicidal effects. Appl. Microbiol. Biotechnol. 21(3-4):250-251.
- Otieno, W. A. et al. 1985. Occurrence of *Coelomomyces indicus*, a fungal pathogen of malaria mosquito vector, *Anopheles gambiae* complex along the Kenya coast. Insect Sci. Appl. 6(2):199-204.
- Pankova, T. F. 1985. Experimental study of the transmission of microsporidians of blood-sucking mosquitoes from the southern part of west Siberia. Parazitologii 19(4):296-300.
- Reish, D. J., J. A. LeMay and S. L. Asato. 1985. The effect of BTI (H-14) and methoprene on two species of marine invertebrates from Southern California estuaries. Bull. Soc. Vector Ecol. 10(1):20-22.
- Robert, A. and K. Messing-Al-Aidroos. 1985. Acid production by *Metarhizium anisopliae*: Effects on virulence against mosquitoes and on detection of in vitro amylase, protease, and lipase activity. J. Invert. Pathol. 45(1):9-15.
- Roberts, G. M. and H. D. Burges. 1984. Combination of *Bacillus thuringiensis* var. *israelensis* and a surface active monolayer for mosquito control. In 1984 British Crop Protection Conference. Pests and diseases. Proceedings of a conference held at Brighton Metropole, England, November 19-22, 1984. Volume 1: 287-292.
- Shaffer, S. 1985. Miniature shellfish help control mosquitoes. Agr. Res. 33(4):4.
- Sharma, S. K. and B. L. Wattal. 1982. Further studies on mosquito larvicidal potential of mucilaginous seed. J. Entomol. Res. 6(2):159-165.
- Sherif, A. and R. G. Hall. 1985. Possible vector control substances from the giant kelp, *Macrocystis pyrifera* (L.) Bull. Soc. Vector Ecol. 10(1):42-44.
- Sweeney, A. W. et al. 1984. Life cycle of a microsporidium (*Amblyospora* sp.) infecting the mosquito *Culex annulirostris*. In Proc. Fourth Australian Appl. Entomol. Res. Conf. Adelaide. pp. 386.
- Sweeney, A. W., E. I. Hazard, and M. F. Graham. 1985. Intermediate host for an *Amblyospora* sp. (Microspora) infecting the mosquito *Culex annulirostris*. J. Invert. Pathol. 46(1):98-102.
- Toohy, M. K., M. S. Goettel, and J. S. Pillai. 1981. A review of the prospects of using biological control against mosquito vectors of subperiodic filariasis and arboviruses in Polynesia. S. Pc. J. Nat. Sci. 2:4-43.
- Venkatesan, P. and C. M. Jeyachandra. 1985. Estimation of mosquito predation by the water bug *Diploonychus indicus* Vankatesan and Rao. Indian J. Exp. Biol. 23(4):227-232.
- Weiser, J. and S. Prasertphon. 1984. Entomopathogenic spore-formers from soil samples of mosquito habitats in Northern Nigeria. Zentralblatt Mikrobiol. 139(1):49-55.
- Weiser, J. and Z. Ziska. 1985. A red mosquito iridescent virus in *Aedes punctor* in Czechoslovakia. Folia Parasitol. 32(3):285-290.
- Yu, H. S., D. K. Lee, J. O. Na and S. J. Ban. 1984. Confined field release of native fish (*Aphyocypris chinensis*) and biological control of encephalitis vector (*Culex tritaeniorhynchus*) in rice paddies of endemic area in South Korea. [Abstract]. Korean J. Entomol. 14(1):94-95.
- Yu, H. S. and S. J. Ban. 1984. Studies on natural and laboratory infections of fungal pathogen, *Coelomomyces* sp. (Coelomomycetaceae) against *Aedes togoi* principal vector of filariasis in South Korea. [Abstract]. Korean J. Entomol. 14(1):93.
- Yu, H. S., J. O. Na and H. E. Chapman. 1984. Infection studies of mermithid nematode (*Romanomermis culicivorax*) against *Culex* mosquito larvae in the laboratory. [Abstract]. Korean J. Entomol. 14(1):94.
- Zhang, Y. M. et al. 1984. [A new isolate of *Bacillus thuringiensis* possessing high toxicity against the mosquitoes.] Acta Microbiol. Sinica 24(4):320-325. In Chinese.

BOOKS, BOOKLETS, AND REPORTS

- Dubitskii, A. M. (Editor). 1983. Natural population regulatory factors affecting biting flies in SE Kazakhstan, USSR. New Delhi, India; Amerind Publishing Co. Pvt. Ltd. 171 pp. English translation.
- Holm, E. and C. H. Scholtz (Eds.) 1985. Insects of Southern Africa. Durban, Butterworth Publishers. 564 pp.
- Laird, M. and J. W. Miles (Eds.) 1985. Integrated Mosquito Control Methodologies, Vol. 2. Biocontrol and Other Innovative Components, and Future Directions. London, Academic Press. 444 pp.
- Lee, K. W. and P. J. Egan. 1985. Illustrated taxonomic keys to genera and species of female mosquitoes of Korea, Part 1. Dept. of Army, 5th Preventive Medicine Unit, 18th Medical Command, APO San Francisco 96301. 33 pp.
- Mayo, M. A. and K. A. Harrap (Eds.) 1984. Vectors in Virus Biology. Academic Press, London. 188 pp.
- Ramalingam, S. 1984. Mosquitoes, Disease and Man. An Inaugural Lecture delivered at the University

- of Malaya on Wednesday, April 18, 1984, Kuala Lumpur. 28 pp.
- Singh, P. and R. F. Moore (Eds.). 1985. Handbook of insect rearing. Vol II, 500 pp. Elsevier Science Publishers, Amsterdam. [4 spp. of mosquitoes included.]
- Williams, R. E. et al. (Eds.). 1985. Livestock Entomology. New York, John Wiley & Sons, 335 pp.

CHEMICAL CONTROL

- Ameen, M. et al. 1985. Larvicidal effects of indigenous *Derris elliptica* root on *Aedes aegypti* (Diptera, Culicidae). Int. Quart. Entomol. 1(1):39-43.
- Bilbie, I. et al. 1984. The larvicide effect on Culicidae of microencapsulated malathion. Laboratory and field trials. Arch. Roumaines Pathol. Exp. Microbiol. 43(2):185-191.
- Brealey, C. J. et al. 1984. Resistance mechanisms to DDT and transpermethrin in *Aedes aegypti*. Pesticide Sci. 15(2):121-132.
- Brown, D. N. et al. 1985. Evaluation of chlorphoxim used against *Anopheles albimanus* on the south coast of Mexico: 2. Use of two curtain-trap techniques in a village-scale evaluation trial. Bull. Pan Am. Hlth Organ. 19(1):61-68.
- Carpenter, T. L. et al. 1985. Evaluation of dispersable formulations of erythrosin B for field control of *Culex pipiens quinquefasciatus* Say (Diptera: Culicidae). J. Econ. Entomol. 78(1):232-237.
- Chadwick, P. R. et al. 1984. Cross-resistance to pyrethroids and other insecticides in *Aedes aegypti*. Pesticide Sci. 15(2):112-120.
- Curtis, C. F. and J. Minjas. 1985. Expanded polystyrene for mosquito control. Parasitol. Today 1:36.
- Drobozina, V. P. et al. 1984. [Susceptibility to insecticides (DDT and malathion) and irritability on contact with them of malaria mosquitoes of natural populations in the Dagestan ASSR.] Meditsinskaya Parazitol. Parazitarnye Bolezni 6:44-46. In Russian.
- Fleming, W. J. et al. 1985. Toxicity of Abate® 4E (temephos) in mallard ducklings and the influence of cold. Environ. Tox. Chem. 4:193-199.
- Fujita, K. and T. Kurihara. 1984. [Oviposition regulation by methoprene in *Culex pipiens molestus*.] Jap. J. Sanit. Zool. 35(4):411-414. In Japanese.
- Halliday, W. R. and G. P. Georghiou. 1985. Inheritance of resistance to permethrin and DDT in the southern house mosquito (Diptera: Culicidae). J. Econ. Entomol. 78(4):762-767.
- Hemingway, C. A. et al. 1985. The biochemistry of insecticide resistance in *Anopheles sacharovi*: comparative studies with a range of insecticide susceptible and resistant *Anopheles* and *Culex* species. Pestic. Biochem. Physiol. 24(1):68-76.
- Hemingway, J. 1984. The joint action of malathion and IBP against malathion-resistant and -susceptible strains of *Anopheles stephensi*. Bull. W. H. O. 62(3):445-449.
- Kerbabaev, E. B., G. M. Nikolaev, L. P. Pol'shikova, T. Ya. Surnia. 1984. [The influence of illumination on the activity of insecticides.] Veterinariya, Moscow. No. 12, 21-22. In Russian.
- Lee, H. L. et al. 1984. Preliminary studies on the susceptibility of field-collected *Aedes* (*Stegomyia aegypti* (Linnaeus) to Abate (temephos) in Kuala Lumpur. Trop. Biomed. 1(1):37-40.
- Lores, E. M. et al. 1985. Temephos residues in stagnant ponds after mosquito larvicide applications by helicopter. Bull. Environ. Contam. Toxicol. 35(3):308-313.
- Mani, G. S. and R. J. Wood. 1984. Persistence and frequency of application of an insecticide in relation to the rate of evolution of resistance. Pesticide Sci. 15(4):325-336.
- Mulla, M. S. and H. A. Darwazeh. 1985. Larvicidal activity of two new pyrethroids against mosquito larvae. Bull. Soc. Vector Ecol. 10(1):1-6.
- Parman, R., W. K. Reisen, and M. M. Milby. 1985. Pesticide susceptibility of *Culex tarsalis* in Kern County, California, 1983. Proc. Papers Ann. Conf. (1984) Calif Mosquito and Vector Control Assoc. 52:8-9.
- Philogene, B. J. R. et al. 1985. Synthesis and evaluation of the naturally occurring phototoxin, alphanerthienyl, as a control agent for larvae of *Aedes intrudens*, *Aedes atropalpus* (Diptera: Culicidae) and *Simulium verrecundum* (Diptera: Simuliidae). J. Econ. Entomol. 78(1):121-126.
- Rasnitzin, S. P. and A. N. Zharova. 1985. Influence of mosquitoes contact with DDT. Parazitologiya 19(4):287-289.
- Rawlings, P. et al. 1985. *Anopheles culicifacies* (Diptera: Culicidae)—DDT resistance in Sri Lanka prior to and after cessation of DDT spraying. J. Med. Entomol. 22(4):361-365.
- Reisen, W. K. et al. 1985. The impact of low volume aerial applications of propoxur on the relative abundance and age structure of *Culex tarsalis* populations in Kern County, California, during 1983. Proc. Papers Ann. Conf. (1984) Calif. Mosquito and Vector Assoc. 52:17-20.
- Respicio, N. C., T. L. Carpenter, and J. R. Heitz. 1985. The joint action of coprecipitated free-acid formulations of erythrosin B and fluorescein against the larvae of *Culex pipiens quinquefasciatus* Say (Diptera: Culicidae). J. Econ. Entomol. 78(1):30-34.
- Strickman, D. 1985. Aquatic bioassay of 11 pesticides using larvae of the mosquito, *Wyeomyia smithii* (Diptera, Culicidae). Bull. Environ. Contam. and Toxicol. 35(1):133-140.

FILARIASIS

- Abeyewickreme, W. and M. M. Ismail. 1985. *Anopheles (Cellia) tessellatus*; an efficient laboratory vector of Bancroftian filariasis in Sri Lanka. Mosquito-Borne Dis. Bull. 1(4):89-90.
- Agudelo-Silva, F. and A. Spielman. 1985. Penetration of mosquito midgut wall by sheathed microfilariae. J. Invert. Pathol. 45(1):117-119.
- Chiang, G. L. et al. 1984. Filariasis in Bengkulu Peninsula, Sabal, Malaysia: bionomics of *Mansonia* sp. Southeast Asian J. Trop. Med. Public Health 15(3):294-302.
- Courtney, C. C., B. M. Christensen, and W. G. Goodman. 1985. Effect of *Dirofilaria immitis* on blood meal size and fecundity in *Aedes aegypti* (Diptera: Culicidae). J. Med. Entomol. 22(4):398-400.
- Forton, K. F., B. M. Christensen and D. R. Sutherland. 1985. Ultrastructure of the melanization re-

- sponse of *Aedes trivittatus* against inoculated *Dirofilaria immitis* microfilariae. *J. Parasitol.* 71(4):331-341.
- Hendrix, C. M., J. C. Schlotthauer, and W. J. Bernick. 1985. *Dirofilaria immitis* in the mosquito intermediate host. *Canine Practice* 12(3):32-38.
- Roberts, E., M. April, and M. Trpis, 1985. Laboratory transmission of dog heartworm (*Dirofilaria immitis*) by three species of mosquitoes (Diptera: Culicidae) from eastern Maryland, USA. *J. Med. Entomol.* 22(4):415-420.
- Rodriguez, P. H. 1985. Ethyl methane sulfonate induced changes in filarial susceptibility in *Aedes aegypti* (Diptera: Culicidae). *J. Med. Entomol.* 22(4):366-369.
- Russell, R. C. 1985. Report of a field study on mosquito (Diptera: Culicidae) vectors of dog heartworm, *Dirofilaria immitis* Leidy (Spirurida: Onchocercidae) near Sydney, N. S. W., and the implications for veterinary and public health concern. *Austr. J. Zool.* 33(6):461-472.
- Sudomo, M. et al. 1983. Studies of filariasis in Keban Agung and Gunung Agung villages in south Bengkulu, Sumatera, Indonesia. I. The mosquito fauna with reference to seasonal studies of two *Anopheles* and *Culex tritaeniorhynchus*. *Bull. Health Studies Indonesia* 11(1):25-35.
- Suguri, S. et al. 1985. Vector mosquitoes of *Wuchereria bancrofti* at Bicol Region in the Philippines. I. Transmission capability. *Jap. J. Exp. Med.* 55(2):61-66.
- Wang Gaunqun et al. 1984. [Comparative observations on the morphology of different larval stages of *Setaria digitata* and *Brugia malayi* developing in *Anopheles sinensis*.] *J. Parasitol. Parasitic Dis.* 2(2):117-119. In Chinese.
- Wang, J. Y. et al. 1984. [The value of mass dissection technique for surveillance of filarial vectors [in China.]] *J. of Parasitol. Parasitic Dis.* 2(2):82. In Chinese.
- Zhang Xizhen et al. 1984. [Preliminary observation on the identification of the infective larvae of *Setaria digitata* and *Wuchereria bancrofti* in *Anopheles sinensis* in south Shandong.] *J. Parasitol. Parasitic Dis.* 2(2):87. In Chinese.
- Zhu Suzhen et al. 1984. [Radioisotopic labelling of third-stage larvae of *Brugia malayi* in *Anopheles sinensis*.] *J. Parasitol. Parasitic Dis.* 2(2):111-113. In Chinese.
- GENETICS AND GENETIC CONTROL**
- Amin, A. M. and G. B. White. 1984. Genetics of the mutant 5j (five-jointed female palp) in the Senegambian crossing-type of *Culex quinquefasciatus* Say (Diptera: Culicidae). *Genetica* 65(2):119-126.
- Baimi, V. et al. 1984. Cytogenetic studies of some species complexes of *Anopheles* in Thailand and Southeast Asea. *Southeast Asian J. Trop. Med. Public Health* 15(4):536-546.
- Coluzzi, M., V. Petrarca, and M. A. DiDeco. 1985. Chromosomal inversion integration and incipient speciation in *Anopheles gambiae*. *Boll. Zool.* 52(1-2):45-64.
- Dev, V. and K. S. Rai. 1985. Genetic relationships among certain species of the *Aedes* (*Stegomyia*) *scutellaris* group (Diptera: Culicidae). *Ann. Trop. Med. Parasitol.* 79(3):325-332.
- Hii, J. L. K. 1985. Genetic investigations of laboratory stocks of the complex of *Anopheles balabacensis* Baisas (Diptera: Culicidae). *Bull. Entomol. Res.* 75(2):185-198.
- Lines, J. D. and C. F. Curtis. 1985. Genetic sexing systems in *Anopheles arabiensis* Patton (Diptera: Culicidae). *J. Econ. Entomol.* 78(4):848-851.
- Mukherjee, A. B. and R. J. Herrera. 1985. Replication pattern of double minutes derived from an insect cell line. *Experientia* 41(1):85-86.
- Rowland, M. 1985. Location of the gene for malathion resistance in *Anopheles stephensi* (Diptera, Culicidae) from Pakistan. *J. Med. Entomol.* 22(4):373-380.
- Sakai, R. K. and F. Mahmood. 1985. Homozygous chromosomal aberrations in *Anopheles stephensi*. *J. Hered.* 76(4):230-236.
- Urbanelli, S., L. Bullini, and F. Villani. 1985. Electrophoretic studies on *Culex quinquefasciatus* Say from Africa: genetic variability and divergence from *Culex pipiens* L. (Diptera; Culicidae). *Bull. Entomol. Res.* 75(2):291-304.
- MALARIA**
- Aldighieri, R. et al. 1985. [Evolution of antimalaria campaigns since 1897. [Review.]] *Méd. Trop.* 45(1):9-18. In French.
- Alvar, J. et al. 1985. Chloroquine-resistant falciparum malaria imported into Spain from Malawi. *Trans. R. Soc. Trop. Med. Hyg.* 79(3):419
- Bialy, H. 1985. Candidate malaria vaccine synthesized. *Bio-technology* 3(6):519.
- Casaglia, O. et al. 1985. Re-examination of earlier work on repetitive DNA and mosquito infectivity in rodent malaria (MBP00555). *Molecular Biochem. Parasitol.* 16(1):35-42.
- Cattani, J. et al. 1983. Malaria and filariasis in the Ok Tedi region of the Star Mountains, Papua New Guinea. *Papua New Guinea Med. J.* 26(2):122-126.
- Chadee, D. D., A. LeMaitre, R. M. A. DougDeen, and E. C. Laurent. 1984. Fansidar resistant *falciparum* imported to Trinidad from Tanzania. *Carib. Med. J.* 45:49-51.
- Collins, W. E. et al. 1984. Infection and transmission studies with the N-3 strain of *Plasmodium fieldi* in the *Macaca mulatta* monkey. *J. Parasitol.* 70(3):422-427.
- Cox, F. E. G. 1985. Malaria vaccine cocktail. *Nature* 316(6025):212.
- Deane, L. M., N. J. A. Ferreira and M. M. Lima. 1984. The vertical dispersion of *Anopheles (Kerteszia) cruzi* in a forest in southern Brazil suggests that human cases of malaria of simian origin might be expected. *Mem. Inst. Oswaldo Cruz* 79(4):461-463.
- Fisher, M. 1985. Malaria at high altitudes in Africa. *Brit. Med. J.* 291 (6437):56.
- Giboda, M. 1985. Malaria in the Province of Takeo, Cambodia. *Folia Parasitol.* 32(3):205-210.
- Hall, A. et al. 1985. Dangers of highdose quinine and overhydration in severe malaria. *Lancet* 8443:1453.
- Harte, P. G., N. Rogers, and G. A. T. Targett. 1985. Vaccination with purified microgamete antigens

- prevents transmission of rodent malaria. *Nature* 316(6025):258-259.
- Hira, P. R. et al. 1985. Imported malaria in Kuwait. *Trans. R. Soc. Trop. Med. Hyg.* 79(3):291.
- Hyma, B., A. Ramesh, and K. P. Chakrapani. 1983. Urban malaria control situation and environmental issues, Madras City, India. *Ecol. Dis.* 2(4):321-335.
- Laird, M. 1985. New answers to malaria problems through vector control? *Experientia* 41:446-454.
- McGregor, I. 1984. Malaria-recollections and observations. *Trans. Roy. Soc. Trop. Med. Hyg.* 78(1):1-8.
- Nedelman, J. 1985. Estimation for a model of multiple malaria infections. *Biometrics* 41(2):447-454.
- Penalba, C. et al. 1984. [Anti-erythrocyte autoimmunization with anti-I specificity during malaria.] *Bull. Soc. Pathol. Exot.* 77(4):469-480. In French.
- Peters, W. 1985. Malaria research in India. *Lancet* 8447:144-145.
- Peters, W. 1985. The problem of drug resistance in malaria. *Parasitol.* 90(4):705-716.
- Sharma, S/ et al. 1985. Diversity of circumsporozoite antigen genes from two strains of the malarial parasite *Plasmodium knowlesi*. *Science* 229 (4715):779-781.
- Smith, D. C. and L. B. Sanford. 1985. Laveran's germ: the reception and use of a medical discovery. *Amer. J. Trop. Med. Hyg.* 34(1):2-20.

MISCELLANEOUS

- Doll, J. M. and M. E. Wright. 1985. The status of some vector-borne and zoonotic diseases in Arizona. *Bull. Soc. Vector Ecol.* 10(1):62-69.
- He, Z. J. et al. 1984. [Experimental study on cellulose acetate diffusion method for the identification of mosquito blood meals.] *J. Parasitol. Parasitic Diseases* 2(4):257-259. In Chinese.
- Huang, W. Z. et al. 1984. [Study on an agar gel diffusion method for the identification of mosquito blood meals.] *J. Parasitol. Parasitic Dis.* 2(1):39-42. In Chinese.
- Hunt, G. J., and C. S. Hacker. 1984. Computer-generated maps as an aid to mosquito control (Diptera: Culicidae). *J. Med. Entomol.* 21(5):489-500.
- Ji-qun, Yang. et al. 1984. Comparison of six insect light traps with different spectral colors in attracting mosquitos and flies. *Chin. J. Prevent Med.* 18(1):15.
- Kraft, S. K. 1985. Mosquito control—an often overlooked PCO market. *Pest Control Tech.* July, pp. 36-40.
- Meyer, R. P. et al. 1985. A time segregated sampling device for determining nightly host-seeking patterns of female mosquitoes. *Proc. Papers Ann. Conf. (1984) Calif. Mosquito and Vector Control Assoc.* 52:162-166.
- Moussiégt. O. 1985. *Coquillettidia (Coquillettidia) richardii* (Ficalbi, 1889) Bibliographie. Montpellier, Entente Interdepartementale Demoustication Littoral Mediterranee Francais Document 50, 34 pp. In French.
- Okazawa, T. and M. Mogi. 1984. Efficiency of the dipper in collecting larvae of *Anopheles sinensis* (Diptera: Culicidae) in rice fields, Jap. *J. Sanit. Zool.* 35(4):367-371.
- Sinegre, G. 1985. [Mosquito control in France.] *Phytoma* 366:39-40. In French.
- Tice, D. J. 1985. The mosquito chronicles. T W A Ambassador. May, pp. 57-60.

TAXONOMY AND DISTRIBUTION

- Adamovic, R. 1983. Distribution and abundance of anophelines (Diptera, Culicidae) in southeast Montenegro. *Glasnik Republičkog Zavoda Zastitu Prirode Prirodnjackog Muzeja Titrogradu* 16:117-128.
- Adamovic, Z. and R. Paulus. 1985. Anopheline species (Diptera, Culicidae) in the region of Zagreb, Croatia. *Acta Vet-Beograd* 35(3):157-162.
- Chiang, G. L. et al. 1984. Species composition, seasonal abundance and filarial infections of *Mansonia* in two ecotopes in Peninsular Malaysia. *Trop. Biomed.* 1(1):41-48.
- Forattini, O. P. and M. A. M. Sallum. 1985. A new species of *Culex (Melanoconion)* from southern Brazil (Diptera: Culicidae). *Rev. Saude Publ., S. Paulo*, 19:171-182.
- Giurca, I. 1984. The *Aedes* mosquitoes (Diptera, Culicidae) in the east of Romanian plain-distribution and biology. *Arch. Roumaines Pathol. Exp. Microbiol.* 43(1):103-111.
- Hudson, J. E. and D. G. Young. 1985. New records of phlebotomines, leishmaniasis and mosquitoes from Suriname. *Trans. R. Soc. Trop. Med. Hyg.* 79(3): 418.
- Kanda, T. et al. 1985. Biological validity of a morphological species *Anopheles takasagoensis* Morishita, 1946. *Jap. J. Genet.* 60(4):381-385.
- Kupriyanova, E. S. et al. 1984. [Blood-sucking mosquitoes of the Dzhizak and Syr-Dar'ya regions of Uzbek SSR.] *Meditsinskaya Parazitol. Parazitarnye Bolezni* 6:46-51. In Russian.
- Lee, K. W., R. K. Gupta and J. A. Wildie. 1984. Collection of adult and larval mosquitoes in U.S. army compounds in Republic of Korea during 1979-1983. *Korean J. Parasitol.* 22(1):102-108.
- Morales, A. et al. 1984. [Search for mosquitoes of the genus *Haemagogus* in the Department of La Guajira, Colombia, South America (Diptera: Culicidae).] *Biomédica* 4(1):25-36. In Spanish.
- Murray, M. D. and E. N. Marks. 1984. Blood-sucking Diptera of the Cocos (Keeling) Islands. *J. Aust. Entomol. Soc.* 23(4):265-268.
- Ramalingam, S. 1984. A survey of mosquitoes and mosquito-borne diseases in some Central and South Pacific islands. *Trop. Biomed.* 1(2):133-144.
- Ramos, H. D. 1984. Research on the mosquitoes of Angola (Insecta, Diptera, Culicidae) XVI. Two new *Uranotaenia* records from the Lunda Province. *An. Inst. Hig. Med. Trop.* 9:25-29.
- Rapp, W. F. 1985. The distribution and natural history of *Culex tarsalis* in the Great Plains Region. *Proc. West Central Mosquito and Vector Control Assoc.* 10:29-33.
- Rodhain, F. and A. Boutonnier, 1984. [The genus *Orthopodomyia* (Diptera: Culicidae) in Madagascar.] *Arch. Inst. Pasteur Madagascar* 51(1):203-248. In French.

- Sommer, S. H. 1983. [The fauna of mosquitoes (Diptera, Culicidae) of the Schwerin District of the GDR and their importance as nuisance-causers.] *Angew. Parasitol.* 24(2):95-106. In German.
- Steffan, W. A. and N. L. Evenhuis. 1985. Classification of the subgenus *Toxorhynchites* (Diptera, Culicidae). I. Australasian, Eastern, Palaearctic, and Oriental species-groups. *J. Med. Entomol.* 22(4):421-446.
- Sudomo, M. et al. 1983. See under Filariasis.
- Su-fang, Ma. 1981. Studies on the *Anopheles* (A.) *sinensis* group of mosquitoes in China including four new sibling species. *Sinozoologia* 1:57-70.
- Su-fang, Ma. 1982. Diptera: Culicidae. In "Insects of Xizang" 2:157-163.
- Wibowo, S., V. Baimai and R. G. Andre. 1984. Differentiation of four taxa of the *Anopheles balabacensis* complex using H-banding patterns in the sex chromosomes. *Can. J. Genetics Cytol.* 26(4):425-429.
- Yu, R. A. and D. H. Chen. 1984. [Revision and description of *Anopheles* (*Cellia*) *balabacensis* Biasas from Yunnan, China.] *Entomotaxonomia* 6(4):323-324. In Chinese.

VIRUS DISEASES

- Anonymous. 1984. Dengue in the Americas, 1983. *Epidemiol. Bull.* 5(5):1-3.
- Anonymous. 1984. Yellow fever in 1983. *Weekly epidemiol. Record* 59(43):329-335.
- Clerc, Y. et al. 1984. [Andasibe virus, a new viral prototype isolated from Culicidae in Madagascar.] *Arch. Inst. Pasteur Madagascar* 51(1):135-138. In French.
- Durbin, R. K. and V. Stollar, 1985. Sindbis virus mutants able to replicate in methionine-deprived *Aedes albopictus* cells. *Virology* 144(2):529-532.
- Fontenille, D. and C. Mathiot. 1984. [Results of a year (1983) of entomological investigations on arbovirus vectors in Madagascar.] *Arch. Inst. Pasteur Madagascar* 51(1):161-202. In French.
- Grimstad, P. R., S. L. Paulson, and G. B. Craig. 1985. Vector competence of *Aedes hendersoni* (Diptera, Culicidae) for LaCrosse virus and evidence of a salivary-gland escape barrier. *J. Med. Entomol.* 22(4):447-453.
- Halstead, S. B. 1984. Selective primary health care: strategies for control of disease in the developing world. XI. Dengue. *Rev. Infect. Dis.* 6(2):251-264.
- Hoch, A. L., T. P. Gargan, II., and C. L. Bailey. 1985. Mechanical transmission of Rift Valley fever virus by hematophagous Diptera. *Amer. J. Trop. Med. Hyg.* 34(1):188-193.
- Hoffman, D. and T. D. St George. 1985. Growth of epizootic hemorrhagic disease, Akabane, and ephemeral fever viruses in *Aedes albopictus* cells maintained at various temperatures. *Aust. J. Biol. Sci.* 38(2):183-188.
- Kay, B. H. et al. 1984. Dengue fever: reappearance in northern Queensland after 26 years. *Med. J. Austr.* 140(5):264-268 [En]
- Khutoretzkaya, N. V. et al. 1985. Experimental study of the reproduction of Karshi virus (Togaviridae, Flavivirus) in some species of mosquitoes and ticks. *Acta Virologica* 29(3):231-236.
- King, B. M. and M. A. Alders. 1984. Morphology of bluetongue virus-infected *Aedes albopictus* (C6/36) cell culture. In *Bluetongue and Related Orbiviruses, Progress in Clinical and Biological Research.* 178:289-294. New York: Alan R. Liss, Inc.
- Ksiazek, T. G., J. L. Hardy, and W. C. Reeves. 1985. Effect of normal mosquito extracts upon arbovirus recoveries from mosquito pools. *Amer. J. Trop. Med. Hyg.* 34(3):578-585.
- Lok, C. K. 1985. Methods and indices used in the surveillance of dengue vectors. *Mosquito-Borne Dis. Bull.* 1(4):79-88.
- Mathiot, C. et al. 1984. [West Nile virus and Madagascar.] *Arch. Inst. Pasteur Madagascar.* 51(1):113-123. In French.
- Mathiot, C. et al. 1984 [Rift Valley fever and Zinga virus: an arbovirus pathogenic to man and animal new to Madagascar.] *Arch. Inst. Pasteur Madagascar* 51(1):125-133. In French.
- Mourya, D. T. and R. S. Soman. 1985. Effect of gregarine parasite, *Ascogregarina culicis* and tetracycline on the susceptibility of *Culex bitaeniorhynchus* to JE virus. *Indian J. Med. Res.* 81 (March): 247-250.
- Niklasson, B. S. and T. P. Gargan, II. 1985. Enzyme-linked immunosorbent assay for detection of Rift Valley fever virus antigen in mosquitoes. *Amer. J. Trop. Med. Hyg.* 34(2):400-405.
- Patrican, L. A., G. R. DeFoliart and T. M. Yuill. 1985. LaCrosse viremia in juvenile, subadult, and adult chipmunks (*Tamias striatus*) following feeding by transovarially infected *Aedes triseriatus*. *Amer. J. Trop. Med. Hyg.* 34(3):596-602.
- Rosen, L. et al. 1985. Comparative susceptibility of mosquito species and strains to oral and parenteral infection with dengue and Japanese encephalitis viruses. *Amer. J. Trop. Med. Hyg.* 34(3):603-615.
- Roux, J. et al. 1984. [The epidemic of yellow fever in south-eastern Upper Volta (October-December 1983). Epidemiological study-preliminary results.] *Med. Trop.* 44(4):303-309. In French.
- Soman, R. S. and D. T. Mourya. 1985. Transovarial transmission of Japanese encephalitis virus in *Culex bitaeniorhynchus* mosquitoes. *Indian J. Med. Res.* 81 (March): 257-259.
- Vargas, S. R. 1983. [Sylvatic yellow fever in Bolivia.] *Bol. Inform. Cenotrop* 9(1):13-20. In Spanish.
- Waterman, S. H. et al. 1985. Dengue transmission in two Puerto Rican communities in 1982. *Amer. J. Trop. Med. Hyg.* 34(3):625-632.
- Yaminishi, H., E. Konishi and T. Matsumura. 1984. [Comparison of the susceptibility to Chikungunya virus of 2 strains of *Aedes albopictus*.] *Jap. J. Sanit. Zool.* 35(4):361-365. In Japanese.

WATER MANAGEMENT

- Murray, W. D. 1985. Planning diary wastewater systems for mosquito control. *Bull. Soc. Vector Ecol.* 10(1):60-61.