

LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

1982—Part IV

HELEN SOLLERS-RIEDEL¹

P.O. Box 19009 Washington, D. C. 20036, USA

The Section on Fumigants has been deleted.

ADULTICIDES, LARVICIDES AND GROWTH REGULATORS

- Atkins, E. L., Womeldorf, D. J. and Lewis, L. A. 1981. Comparative effects of aerosols of bendiocarb, chlorpyrifos, malathion, and pyrethrins upon caged honey bees and mosquitoes. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:76-81. (Pub. 1982).
- Barlow, F., Miles, J., Turner, C. R. and Smith, S. 1982. The insecticidal activity of spray deposits from some formulations of malathion. WHO/VBC/82.853, 6 pp. [*Anopheles stephensi*.]
- Barlow, F., Turner, C. R., Flower, L. S. and Smith, S. 1982. Further measurements of insecticidal activity and the distribution of malathion between dried spray deposits and underlying porous substrates. WHO/VBC/82.852, 8 pp. [*Anopheles stephensi*.]
- Carpenter, T. L., Mundie, T. G., Ross, J. H. and Heitz, J. R. 1981. Synergistic effect of fluorescein on rose bengal-induced, light-dependent toxicity. Environmtl. Ent. 10(6):953-955.
- Chavan, S. R. and Nikam, S. T. 1982. Mosquito larvicidal activity of *Ocimum basilicum* Linn. Indian J. Med. Res. 75(Feb.):220-222.
- Creekmur, G. D., Russell, M. P. and Hazelrigg, J. E. 1981. Field evaluation of the effects of slow-release wettable powder formulation of Altosid® on nontarget organisms. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:95-97. (Pub. 1982).
- Darwazeh, H. A. and Mulla, M. S. 1981. Encapsulated formulations of primiphos-methyl against mosquito larvae and some nontarget organisms. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:90-94. (Pub. 1982).
- Darwazeh, H. A., Mulla, M. S., Ede, L. and Rodriguez, C. 1981. Activity of new larvicides against mosquitoes. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:73-75. (Pub. 1982).
- Farghal, A. I. and Temerak, S. A. 1981. Effect of the juvenile hormone analogue Altosid on some culicine mosquitoes and their associated insects under field and laboratory conditions. Z. Angew. Ent. 92(5):505-510.
- Fontaine, R. E. 1981. A report on the progress of *Bacillus thuringiensis israelensis* and highlights of the UC mosquito research program. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:15-16. (Pub. 1982).
- Hwang, Y. S., Mulla, M. S. and Rodriguez, C. 1981. *N,N*-dialkylalkanamides and alkyl *N*-methylcarbamates as mosquito larvicides. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:88-89. (Pub. 1982).
- Kawatra, V. K. 1981. Histopathological effects of tepa on oocyte development of the tropical house mosquito, *Culex pipiens fatigans* Wiedemann. Entomon 6(2):143-153.
- Mouchet, J. 1982. Vector control at community level. WHO/VBC/82.847, 8 pp. [*Aedes, Anopheles*.]
- Mulla, M. S. and Darwazeh, H. A. 1981. Efficacy of petroleum larvicidal oils and their impact on some aquatic nontarget organisms. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:84-87. (Pub. 1982).
- Mulla, M. S., Federici, B. A. and Darwazeh, H. A. 1982. Larvicidal efficacy of *Bacillus thuringiensis* serotype H-14 against stagnant-water mosquitoes and its effects on nontarget organisms. Environmtl. Ent. 11(4):788-795.
- Mulla, M. S., Federici, B. A., Darwazeh, H. A. and Ede, L. 1982. Field evaluation of the microbial insecticide *Bacillus thuringiensis* serotype H-14 against floodwater mosquitoes. Appl. Environmtl. Microbiol. 43(6):1288-1293.
- Mulligan, F. S., III and Schaefer, C. H. 1981. Integration of a selective mosquito control agent *Bacillus thuringiensis* serotype H. 14, with natural predator populations in pesticide-sensitive habitats. Proc. and Pa-

¹ This work was supported, in part, by Grant AI 15643, from the National Institute of Allergy and Infectious Diseases, National Institutes of Health, U.S. DHHS.

- pers Calif. Mosquito and Vect. Cont. Assoc. 49:19-22. (Pub. 1982).
- Neves, D. P., Linardi, P. M. and Cunha, H. C. 1981. Emprego do K-othrine (decamethrin NRDC 161) no controle de *Aedes fluviatilis* e de *Culex pipiens fatigans*: testes de laboratorio e revista. *Revista Brasil. de Biol.* 41(3):607-614. Engl. Sum.
- Pandey, U.K. and Srivastava, H. C. 1981. Studies on the mixed formulation of insecticides against mosquito larvae (*Culex fatigans*). *Z. Angew. Zool.* 68(1):115-121.
- Schaefer, C. H., Stewart, R. J. and Dupras, E. F., Jr. 1981. The accumulation and degradation of SIR-8514 by fish. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:81-83. (Pub. 1982).
- Shankar, V. and Pandeya, S. N. 1979. Synthesis, insecticidal and larvicidal activity of 1-(α or β)-naphthylamidino-1-arylthiocarbamide dihydrochlorides and 4-aryl-3(α or β)-naphthylimino-5-imine-1,2,4-thiadiazolidines. *Indian J. Pharmaceut. Sci.* 41(6):218-222.
- Sokolova, E. I. and Ganushkina, L. A. 1982. Combined effect of bacterial preparations and insect development regulators on larvae of bloodsucking mosquitoes. *Med. Parazit. i Parazit. Bolezni* 60(4):42-46. In Rus., Engl. Sum.
- Sudomo, M., Aminah, S., Mathis, H. and Bang, Y. H. 1981. Small-scale field trials of *Bacillus thuringiensis* H-14 against different mosquito vector species in Indonesia. WHO/VBC/81.836 Corr. 1, 1 p.
- World Health Organization. 1982. Meeting of Directors of WHO Collaborating Centres on the Evaluation and Testing of New Insecticides Geneva, 9-15 March 1982. WHO/VBC/82.846, 40 pp. [Mosquitoes included.] For additional references on *Bacillus thuringiensis* serotype H-14 see following section.
- PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS**
- Akhmetbekova, R. T., Dubitsky, A. M. and Childibaev, D. 1982. On the role of aquatic arthropods in the reduction of the abundance of mass species of bloodsucking Diptera in the arid zone of Kazakhstan. *Parazitologiya* 16(3):246-248. In Rus., Engl. Sum.
- Balaraman, K. 1981. Microbial control agents—their effect on the biology of mosquitoes. *Proc. Indian Natl. Sci. Acad.* 46B(6):868-871.
- Cheyne, S. 1981. Geothermal aquaculture: a pilot project for intensive culture of the mosquitofish, *Gambusia affinis*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:35-36. (Pub. 1982).
- Coykendall, R. L. 1981. Distribution and migratory movements of mosquitofish in a Sacramento Valley rice field. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:39-44. (Pub. 1982).
- Critchfield, S. M., Harvey, J. F. and Kauffman, E. E. 1981. Mass rearing of *Romanomermis culicivora*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:33-35. (Pub. 1982).
- Curran, J. 1982. Infectivity and development of a blackfly (Simuliidae) mermithid in mosquitoes. *J. Invert. Path.* 39(3):401-402.
- de Barjac, H. and Coauthors. 1980. Innocuity test on mammals with serotype H-14 of *Bacillus thuringiensis*. WHO/VBC/80.761, 23 pp.
- Dubitsky, A. M., Saubenova, O. G. and Cherkashin, A. N. 1981. New effective biological pathogen for the control of mosquitoes. *Vest. Akad. Nauk. Kaz. SSR.* 5:38-43. In Rus.
- Farghal, A. I. and Temerak, S. A. 1982. Notes on the pathogenicity of *Bacillus thuringiensis* var. *israelensis* for *Culex pipiens molestus* larvae. *Anz. f. Schädlingkunde* 55(5):66-68. In Ger., Engl. Sum.
- Federici, B. A. 1981. The development of *Bacillus thuringiensis* var. *israelensis* and its site of action in mosquito larvae. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:17-19. (Pub. 1982).
- Garcia, R., DesRochers, B. and Tozer, W. 1981. Studies on *Bacillus thuringiensis* var. *israelensis* against mosquito larvae and other organisms. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:25-29. (Pub. 1982).
- Gardner, J. M., Chang, C. M. and Pillai, J. S. 1982. The effects of salinity and temperature on the growth of three strains of the mosquito pathogenic fungus *Tolyposcladium cylindrosporium* Gams. WHO/VBC/82.849, 5 pp.
- Ilyaitdinova, S. G. 1979. Algal control of bloodsucking insects. *Water Resources* 5(4):619-621. [Translated from *Vodnye Resursy* No. 4:179-182, 1978. Mosquitoes included.]
- Imbriani, J. L. and Platzer, E. G. 1981. Gaseous requirements for postparasitic development of *Romanomermis culicivora*. *J. Nematology* 13(4):470-476.

- Jacques, P. A. and Beier, J. C. 1982. Experimental infections of *Ascogregarina lanyuensis* (Apicomplexa, Lecudinidae) in *Aedes* (*Stegomyia*) sp. mosquitoes. Mosquito News 42(3):438-439.
- Kolasa, J. and Mead, A. P. 1981. A new species of freshwater turbellarian from Africa, predatory on mosquitoes: *Mesostoma zariae* n. sp. (Typhloplanoida). Hydrobiologia 84:19-22.
- Kramer, J. P. 1982. *Entomophthora culicis* (Zygomycetes, Entomophthorales) as a pathogen of adult *Aedes aegypti* (Diptera, Culicidae). Aquatic Insects 4(2):73-79.
- Kupriyanova, E. S. 1982. Detection of parasitic fungus of the genus *Coelomomyces* (Phycomycetes, Blastocladales) on *Anopheles sacharovi* Favre, 1903, mosquitoes in the Azerbaidzhan SSR. Med. Parazit. i Parazit. Bolezni 60(4):65-67. In Rus., Engl. Sum.
- Larget, I. and Charles, J. F. 1982. Study of the larvicidal activity of *Bacillus thuringiensis* var. *israelensis* on Toxorhynchitinae larvae. Bul. Soc. de Path. Exot. 75(2):121-130. In Fr., Engl. Sum.
- Lorio, W. J., Capezza, M. R. and Dakin, O. H. 1979. Aquatic ecological parameters associated with salt marsh mosquito ditch systems. Proc. Ann. Conf. Southeast. Assoc. Fish Wildl. Agencies 33:484-494.
- McLaughlin, R. E., Fukuda, T., Willis, O. R. and Billodeaux, J. 1982. Effectiveness of *Bacillus thuringiensis* serotype H-14 against *Anopheles crucians*. Mosquito News 42(3):370-374.
- Merriam, T. L. and Axtell, R. C. 1982. Salinity tolerance of two isolates of *Lagenidium giganteum* (Oomycetes: Lagenidiales), a fungal pathogen of mosquito larvae. J. Med. Ent. 19(4):388-393.
- Meyer, H. J. and Learned, L. W. 1981. A field test of the potential of a local flatworm, *Dugesia tigrina*, for biological control of mosquitoes in temporary pools. N. Dak. Farm Res. 39(2):19-21.
- Mitchell, T. O. and Mitchell, C. J. 1982. Susceptibility of *Aedes pseudoscutellaris* and *Aedes polynesiensis* to infection by *Romanomermis culicivorax* in the laboratory. Mosquito News 42(3):396-399.
- Miura, T., Takahashi, R. M. and Mulligan, F. S., III. 1981. Impact of the use of candidate bacterial mosquito larvicides on some selected aquatic organisms. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:45-48. (Pub. 1982).
- Miura, T., Takahashi, R. M. and Wilder, W. H. 1981. The selected aquatic fauna of a rice field ecosystem with notes on their abundances, seasonal distributions and trophic relationships. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:68-72. (Pub. 1982).
- Mulla, M. S. 1981. A new microbial insecticide for the control of stagnant and floodwater mosquitoes. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:23-24. (Pub. 1982).
- O'Flynn, M. I. and Craig, G. B., Jr. 1982. Effect of *Toxorhynchites brevipalpis* on *Aedes aegypti* (Diptera: Culicidae) in continuous-breeding laboratory populations. J. Med. Ent. 19(4):380-387.
- Platzer, E. G. 1981. Hatching in the mermithid nematode *Octomomyermis muspratti*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:30-32. (Pub. 1982).
- Poinar, G. O., Jr. and Kaul, H. N. 1982. Parasitism of the mosquito *Culex pipiens* by the nematode *Heterorhabditis bacteriophora*. J. Invert. Path. 39(3):382-387.
- Robison, W. R., Newton, S. H. and Meisch, M. V. 1982. Effect of selected sodium chloride concentrations for minimizing mortality of mosquitofish *Gambusia affinis* in holding tanks. Mosquito News 42(3):440-442.
- Schaefer, C. H., Miura, T., Dupras, E. F., Jr. and Wilder, W. H. 1981. Environmental impact of the fungicide triphenyltin hydroxide after application to rice fields. J. Econ. Ent. 74(5):597-600. [*Gambusia affinis*.]
- Shcherban, Z. P. and Shcherbak, V. P. 1981. Features of the growth of *Coelomomyces ilienensis culicis*—a parasite of mosquito larvae. II. Endogenous growth. Uzbek. Biol. Zhur. No. 3:39-41. In Rus.
- Sih, A. 1981. Stability, prey density and age/dependent interference in an aquatic insect predator, *Notonecta hoffmanni*. J. Animal Ecol. 50(2):625-636. [*Culex quinquefasciatus*.]
- Sinègre, G., Gaven, B. and Jullien, J. L. 1979. Safety of *Bacillus thuringiensis* serotype H-14 for non-target organisms in mosquito breeding sites of the French Mediterranean Coast. WHO/VBC/79.742, 5 pp.
- Spencer, J. P. and Olson, J. K. 1982. Evaluation of the combined effects of methoprene and the protozoan parasite *Ascogregarina culicis* (Eugregarinida, Diplocystidae), on *Aedes* mosquitoes. Mosquito News 42(3):384-390.
- Stoddard, P. and Asman, S. M. 1981. Possible integration of microbial and genetic control of *Culex tarsalis*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:108-111. (Pub. 1982).

- Tsakamoto, M. and Horio, M. 1982. Mosquitoes as natural enemy of mosquitoes: *Toxorhynchites*. Iden(The Heredity) 36(8):49-58. In Jap. only. [4 plates, some in color.]
- Ward, R. A., Levine, N. D. and Craig, G. B., Jr. 1982. *Ascogregarina* nom. nov. for *Ascocystis* Grassé, 1953 (Apicomplexa, Eugregarinorida). J. Parasitol. 68(2):331.
- Yousten, A. A. and Coauthors. 1981. Comparison between bacteriophage typing and serotyping for the differentiation of *Bacillus sphaericus* strains. Ann. de Microbiol. (Inst. Pasteur) 131B(3):297-308.

INTEGRATED PEST MANAGEMENT

- Balling, S. S. and Resh, V. H. 1982. Arthropod community response to mosquito control recirculation ditches in San Francisco Bay salt marshes. Environmtl. Ent. 11(4):801-808.
- Kulanin, V. M. 1982. Experience of eradication and preventive measures against breeding of *Culex pipiens* L. bloodsucking mosquitoes in pickling pits of a vegetable storage unit in Samarkand. Med. Parazit. i Parazit. Bolezni 60(4):70-72. In Rus.

WATER MANAGEMENT

- Iglisch, I. 1981. Practical measures for regulating the mosquito population (Culicidae) by means of water engineering methods as in the case of Sylt. Z. Angew. Zool. 68(2):231-247. In Ger., Engl. Sum.

MOSQUITO CONTROL AGENCY PROBLEMS

- Langham, M. R. and Lanier, R. 1981. Public mosquito abatement. J. Environmtl. Econ. and Mangt. 8(1):97-99.
- Mulligan, F. S., III and Schaefer, C. H. 1982. A physical barrier for controlling mosquitoes which breed in urban storm drains. Mosquito News 42(3):360-365.
- Reed, D. E. 1981. Panel discussion of computers in mosquito control. Introductory remarks. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:119. (Pub. 1982).
- Roberts, F. C. 1981. Why mosquito control agencies should consider automated data processing. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:120-121. (Pub. 1982).

- Rohe, D. L. 1981. A proposed standard CMVCA activity/treatment input code. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:122-123. (Pub. 1982).
- Yang, T. H. 1982. Community participation in urban mosquito-borne disease/mosquito control programmes. WHO/MAL/82.984, 7 pp.
- Yang, T. H. 1982. Participation of primary health workers in urban malaria/mosquito control programmes. WHO/MAL/82.983, 6 pp.

EQUIPMENT

- Lin, N. H. 1982. Field performance test on Gloria-Werke sprayers in Saudi Arabia. WHO/VBC/82.851, 7 pp.

ATTRACTANTS AND REPELLENTS

- Buescher, M. D., Rutledge, L. C. and Wirtz, R. A. 1982. Tests of commercial repellents on human skin against *Aedes aegypti*. Mosquito News 42(3):428-433.
- Hwang, Y. S. and Coauthors. 1981. Fatty acids as oviposition repellents for mosquitoes. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:106-107. (Pub. 1982).
- Lewis, D. J., Fairchild, W. L. and Leprince, D. J. 1982. Evaluation of an electronic mosquito repeller. Canad. Ent. 114(8):699-702.
- Schultz, G. W. and Coauthors. 1981. Field evaluation of mosquito ovipositional repellents. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:98-99. (Pub. 1982).
- Schultz, G. W. and Coauthors. 1982. Field evaluation of ovipositional repellents against *Culex* (Diptera: Culicidae) mosquitoes. Environmtl. Ent. 11(4):968-971.
- Smittle, B. J., Weidhaas, D. E. and Schreck, C. E. 1982. Radioisotope studies to determine the distribution of repellent (deet) and toxicant residues from treated cloth. Mosquito News 42(3):381-384.

RESISTANCE AND SUSCEPTIBILITY

- Das, P. K., Mariappan, T. and Reddy, C. B. S. 1982. Susceptibility of *Culex quinquefasciatus*, *Aedes aegypti*, *Anopheles culicifacies* and *Anopheles stephensi* against insecticides. Indian J. Med. Res. 75(Apr.):529-533.
- Gaaboub, I. A., El-Gayar, F. M. and Helal, E. M. 1975. Comparative bioassay studies on

larvae of *Culex pipiens* and the microcrustacean *Daphnia magna*. Bul. Ent. Soc. Egypt. Econ. Ser. 9:77-84. Pub. 1979.

PESTICIDES AND CHEMICALS

Ahdaya, S. and Guthrie, F. E. 1982. Stomach absorption of intubated insecticides in fasted mice. Toxicology 22(4):311-317.

Gupta, S. K. and Coauthors. 1982. Changes in serum hexachlorocyclohexane (HCH) residues in malaria spraymen after short-term occupational exposure. Arch. Environmtl. Health 37(1):41-44.

World Health Organization. 1982. Recommended health-based limits in occupational exposure to pesticides. WHO Tech. Rpt. Ser. 677, 110 pp.

BEHAVIOR, BIOLOGY AND ECOLOGY

Abbitt, B. and Abbitt, L. G. 1981. Fatal exsanguination of cattle attributed to an attack of salt marsh mosquitoes (*Aedes sollicitans*). J. Amer. Vet. Med. Assoc. 179(12):1397-1400.

Aksenova, A. S. 1982. Breeding places of *Culex pipiens pipiens* L. and *Culex pipiens molestus* Forsk. in a large town. Med. Parazit. i Parazit. Bolezni 60(4):30-34. In Rus., Engl. Sum.

Bailey, C. L., Faran, M. E., Gargan, T. P., II and Hayes, D. E. 1982. Winter survival of blood-fed and nonblood-fed *Culex pipiens* L. Amer. J. Trop. Med. and Hyg. 31(5):1054-1061.

Bentley, M. D. and Coauthors. 1981. Oviposition attractants and stimulants of *Aedes triseriatus* (Say) (Diptera: Culicidae). Environmtl. Ent. 10(2):186-189.

Bock, M. E. and Milby, M. M. 1981. Seasonal variation of wing length and egg raft size in *Culex tarsalis*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:64-66. (Pub. 1982).

Boreham, P. F. L. and Port, G. R. 1982. The distribution and movement of engorged females of *Anopheles gambiae* Giles (Diptera: Culicidae) in a Gambian village. Bul. Ent. Res. 72(3):489-495.

Brauner, K. 1981. Entwicklung der Stechmücke—in der Küvette fotografiert. Mikrokosmos 70(11):344-347.

Carpenter, T. L. and Heitz, J. R. 1981. Light-dependent and -independent toxicity of erythrosin B to *Culex pipiens quinquefasciatus* Say. Environmtl. Ent. 10(6):972-976.

Charlwood, J. D. and Wilkes, T. J. 1981. Observations on the biting activity of *Anopheles triannulatus bachmanni* from the Mato Grosso, Brazil. Acta Amazonica 11(1):67-69.

Chiba, Y., Kubota, M. and Nakamura, Y. 1982. Differential effects of temperature upon evening and morning peaks in the circadian activity of mosquitoes, *Culex pipiens pallens* and *C. pipiens molestus*. J. Interdisciplinary Cycle Res. 13(1):55-60.

Clements, A. N. and Paterson, G. D. 1981. The analysis of mortality and survival rates in wild populations of mosquitoes. J. Appl. Ecol. 18(2):373-399.

Curtis, G. A. and Frank, J. H. 1981. Establishment of *Aedes vexans* in citrus groves in southeastern Florida. Environmtl. Ent. 10(2):180-182.

Dye, C. 1982. Intraspecific competition amongst larval *Aedes aegypti*: food exploitation or chemical interference? Ecol. Ent. 7(1):39-46.

Gozhenko, V. A. 1982. Fecundity of females of *Mansonia richiardi* (Culicidae) in the zone affected by the Kakhovka water reservoir. Parasitologiya 16(2):131-135. In Rus., Engl. Sum.

Jaenson, T. G. T. 1981. Feeding behavior in haematophagous Diptera—a survey. Ent. Tidskrift. 102(4):120-133. In Sw., Engl. Sum. [Culicidae included.]

Kühlhorn, F. 1981. The size of females and the clutch size of *Anopheles messeae messeae* Falleroni 1926 (Diptera, Culicidae). Anz. f. Schädlingkunde 54(10):151-155. In Ger., Engl. Sum.

Leiser, L. B. and Beier, J. C. 1982. A comparison of oviposition traps and New Jersey light traps for *Culex* population surveillance. Mosquito News 42(3):391-395.

Leprince, D. J. and Lewis, D. J. 1982. Relative abundance and seasonal distribution of adult mosquitoes in southern Quebec. Mosquito News 42(3):365-369.

Meisch, M. V., Anderson, A. L., Watson, R. L. and Olson, L. 1982. Mosquito species inhabiting ricefields in five rice growing regions of Arkansas. Mosquito News 42(3):341-346.

Muller, M. J., Murray, M. D. and Edwards, J. A. 1981. Blood-sucking midges and mosquitoes feeding on mammals at Beatrice Hill, N.T. Austral. J. Zool. 29(4):573-588.

Mulligan, F. S., III and Schaefer, C. H. 1981. The breeding of *Culex quinquefasciatus* within the Fresno urban storm drain system. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:101-103. (Pub. 1982).

- Nasci, R. S. 1982. Activity of gravid *Aedes triseriatus* in wooded fencerows. Mosquito News 42(3):408-412.
- Nayar, J. K. 1982. *Wyeomyia mitchellii*: observations on dispersal, survival, nutrition, insemination and ovarian development in a Florida population. Mosquito News 42(3):416-427.
- Northup, J. O. and Washino, R. K. 1981. Laboratory observations of the developmental biology of *Anopheles freeborni* Aitken. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:58-61. (Pub. 1982).
- Ovsepyan, L. A. 1982. Breeding places of *Culex pipiens* L. mosquitoes in wine-making areas of Armenia. Med. Parazit. i Parazit. Bolezni 60(4):67-70. In Rus., Engl. Sum.
- Rasnitsyn, S. P. and Volkova, L. B. 1982. Group-effect analysis exemplified in larvae of the mosquito *Aedes aegypti* (Diptera, Culicidae). Ekologiya No. 4:73-77. In Rus.
- Reisen, W. K. 1981. *Culex tarsalis* Coq. and *Cx. tritaeniorhynchus* Giles: similarities and differences in bionomics and disease relationships. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:10-14. (Pub. 1982).
- Reisen, W. K., Azra, K. and Mahmood, F. 1982. *Anopheles culicifacies* (Diptera: Culicidae): horizontal and vertical estimates of immature development and survivorship in rural Punjab Province, Pakistan. J. Med. Ent. 19(4):413-422.
- Service, M. W. 1980. Effects of wind on the behaviour and distribution of mosquitoes and blackflies. Internatl. J. Biometeorol. 24(4):347-353.
- Shevchenko, A. K., Gozhenko, V. A. and Titova, L. M. 1982. Seasonal and daily changes in the intensity of attack of mass mosquito species (Diptera, Culicidae) in the zone of the Kakhovka water reservoir. Med. Parazit. i Parazit. Bolezni 60(4):35-39. In Rus., Engl. Sum.
- Shroyer, D. A. and Craig, G. B., Jr. 1981. Seasonal variation in sex ratio of *Aedes triseriatus* (Diptera: Culicidae) and its dependence on egg hatching behavior. Environmtl. Ent. 10(2):147-152.
- Suleman, M. 1982. The effects of intraspecific competition for food and space on the larval development of *Culex quinquefasciatus*. Mosquito News 42(3):347-356.
- Uchida, K. and Suzuki, K. 1981. Elimination of protein-food ingested into the crop, and failure of ovarian development in female mosquitoes, *Culex pipiens pallens*. Physiol. Ent. 6(4):445-450.
- GENETICS AND GENETIC CONTROL
- Ali, S. 1980. On a new mutant of *Culex pipiens* Linn. (Diptera: Culicidae). Indian J. Animal Res. 14(2):109-112.
- Barclay, H. J. 1981. Population models on the release of chemosterilants for pest control. J. Applied Ecol. 18(3):679-695.
- Bhalla, S. C. and Narang, S. 1981. Isozymes of *Culex p. fatigans*. III. Genetics of leucine-amino-peptidase. Canad. J. Genet. and Cytol. 23(4):705-713.
- Guptavanij, P. and Barr, A. R. 1982. Two sex-linked mutants, *blond(bl)* and *maroon eye (mar)*, in *Culex pipiens* (Diptera: Culicidae). J. Med. Ent. 19(4):394-398.
- McDonald, P. T. and Asman, S. M. 1981. The development of pseudohomozygote translocation strains for genetic control of *Culex tarsalis*. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:112-113. (Pub. 1982). [C. *tarsalis* in original.]
- Moeur, J. E. and Istock, C. A. 1982. Chromosomal polymorphisms in the pitcher-plant mosquito, *Wyeomyia smithii*. Chromosoma (Berlin) 84(5):623-651.
- Petersen, J. L. 1982. Technique for isozyme analysis of live mosquitoes (Diptera: Culicidae). J. Econ. Ent. 75(4):718-719.
- Pleshkova, G. N. and Plevako, N. G. 1982. The types, frequencies and interchromosomal distribution of x-ray-induced chromosomal aberrations in *Anopheles messeae*. Tsitologiya 24(2):206-210. In Rus., Engl. Sum.
- Rawlings, P. and Curtis, C. F. 1982. Tests for the existence of genetic variability in the tendency of *Anopheles culicifacies* species B to rest in houses and to bite man. Bul. WHO 60(3):427-432.
- Sakai, R. K., Baker, R. H. and Dubash, C. J. 1981. The inheritance of *golden body*, a sex linked mutant in the malaria vector *Anopheles culicifacies*. Canad. J. Genet. and Cytol. 23(4):579-583.
- Suenaga, O. 1982. Cytoplasmic incompatibility in a natural population of *Culex pipiens* complex in Nagasaki, Japan. Trop. Med. (Nagasaki) 24(2):79-85. Jap. Sum.
- Suenaga, O. 1982. Treatment of *Wolbachia pipientis* infection with tetracycline hydrochloride and the change of compatibility in a strain of *Culex pipiens* complex. Trop. Med. (Nagasaki) 24(1):9-15. In Jap., Engl. Sum.
- Tabanick, W. J. 1982. Geographic and temporal patterns of genetic variation of *Aedes aegypti* in New Orleans. Amer. J. Trop. Med. and Hyg. 31(4):849-853.

- Tsukamoto, M. 1982. Disclosure of hidden isozyme bands of lactate dehydrogenase in mosquito larvae. *J. UOEH* 4(3):301-311.
- White, G. B. 1980. Academic and applied aspects of mosquito cytogenetics. *In* Symposia Roy. Ent. Soc. London No. 10 *Insect Cytogenetics* (edited by Blackman, R. L. et al.) pp. 245-274.
- Yong, H. S. and Coauthors. 1982. Multiple phosphoglucomutase alleles in two species of *Mansonia* mosquito. *Experientia* 38(1):85-86.

ANATOMY, MORPHOLOGY AND PHYSIOLOGY

- Boo, K. S. 1981. Discontinuity between ciliary root processes and triple microtubules of distal basal body in mosquito sensory cilia. *Korean J. Ent.* 11(1):15-18. Kor. Sum.
- Day, J. F., Ebert, K. M. and Edman, J. D. 1982. Age of murine hosts determined by binding of estradiol to mosquito blood meals. *J. Med. Ent.* 19(4):357-360.
- Gillett, J. D. 1982. Circulatory and ventilatory movements of the abdomen in mosquitoes. *Proc. Roy. Soc. London Ser. B* 215(1198):127-134.
- Hagedorn, H. H. 1980. Ecdysone, a gonadal hormone in insects. *In* *Advances in Invertebrate Reproduction*. (edited by Clark, W. H., Jr. and Adams, T. S.) pp. 97-107.
- Hanaoka, K. and Hagedorn, H. H. 1980. Brain hormone control of ecdysone secretion by the ovary in a mosquito. *In* *Progress in Ecdysone Research*. (Hoffmann, J. A., editor.) pp. 467-480.
- Harnish, D. G., Wyatt, G. R. and White, B. N. 1982. Insect vitellins: identification of primary products of translation. *J. Expt. Zool.* 220(1):11-19. [*Aedes aegypti* included.]
- McIver, S. and Siemicki, R. 1981. Innervation of cibarial sensilla of *Aedes aegypti* (L.) (Diptera: Culicidae). *Internat. J. Insect Morphol. and Embryol.* 10(4):355-357.
- McIver, S. and Siemicki, R. 1982. Fine structure of maxillary sensilla of larval *Toxorhynchites brevipalpis* (Diptera: Culicidae) with comments on the role of sensilla in behavior. *J. Morphol.* 171(3):293-303.
- Raikhel, A. S. and Lea, A. O. 1982. Abnormal vitelline envelope induced by unphysiological doses of ecdysterone in *Aedes aegypti*. *Physiol. Ent.* 7(1):55-64.
- Svoboda, J. A. and Coauthors. 1982. Utilization and metabolism of dietary sterols in the honey bee and the yellow fever mosquito. *Lipids* 17(3):220-225.
- Wigglesworth, V. B. 1981. The natural history of insect tracheoles. *Physiol. Ent.* 6(2):121-128. [Mosquitoes included.]

TECHNIQUES

- Cheng, M. L., Ho, B. C., Bartnett, R. E. and Goodwin, N. 1982. Role of a modified ovitrap in the control of *Aedes aegypti* in Houston, Texas, USA. *Bul. WHO* 60(2):291-296.
- Klein, T. A., Harrison, B. A., Inlao, I. and Boonyakanist, P. 1982. Colonization of Thailand strains of *Anopheles nivipes* and *Anopheles philippinensis*. *Mosquito News* 42(3):374-380.
- Sucharit, S., Apiwathnasorn, C., Rukkeartskul, R. and Kerdpibule, V. 1982. Improved oviposition medium for *Mansonia* colonization. *Mosquito News* 42(3):357-359.

Techniques—Tissue Culture

- Turner, C. D., Koga, D. and Kramer, K. J. 1981. Secretion of exo- and endo-beta-N-acetyl-glucosaminidases by insect cell lines. *Insect Biochem.* 11(2):215-219.

TAXONOMY AND DISTRIBUTION

- Aitken, T. H. G. 1982. Notes on the identification of some female *Culex* (*Aedini*) and their flight and feeding patterns. *Mosquito Systematics* 14(2):131-132.
- Coetzee, M., Newberry, K. and Durand, D. 1982. A preliminary report on a morphological character distinguishing important malaria vectors in the *Anopheles gambiae* Giles complex in Southern Africa. *Mosquito Systematics* 14(2):88-93.
- Danilov, V. N. 1982. Mosquito fauna (Diptera, Culicidae) of the Ethiopian zoogeographical region. 2. A new species of *Mansonia* (*Coquillettia*) and a key for adults of the genus *Mansonia*. *Med. Parazit. i Parazit. Bolezni* 60(4):26-30. In Rus., Engl. Sum. [*Mansonia voltaensis* n. sp.]
- Gillies, M. T. and Gubbins, S. J. 1982. *Culex* (*Culex*) *torrentium* Martini and *Cx.* (*Cx.*) *pipiens*

- L. in a southern English county, 1974-1975. *Mosquito Systematics* 14(2):127-130.
- Gutsevich, A. V. and Dubitsky, A. M. 1981. New species of mosquitoes in the fauna of the USSR. *Parazit. Sbornik* 30:97-165. In Rus., Engl. Sum. [Mostly *Aedes* spp.]
- Husainy, Z. H. 1980. Distribution records of culicine mosquitoes of Bastar district, Madhya Pradesh, India (Diptera: Culicidae). *J. Bombay Nat. Hist. Soc.* 77(2):277-284.
- Itamies, J. 1981. *Aedes geniculatus* as a new mosquito for Finland (Diptera, Culicidae). *Notulae Ent.* 61(4):207-208. In Fin., Engl. Sum.
- Lane, J. 1982. *Aedes (Stegomyia) cretinus* Edwards 1921 (Diptera: Culicidae). *Mosquito Systematics* 14(2):81-87.
- Meisch, M. V., Spatz, H. and Kottkamp, W. B. 1981. Surveillance for the yellow fever mosquito in Arkansas. *Ark. Farm Res.* 30(3):6.
- Nielsen, L. T. 1982. *Aedes euedes* H., D. and K.—a report of a new record from Wyoming with notes on the species. *Mosquito Systematics* 14(2):133-134.
- Pandya, A. P. 1980. Studies on the Culicidae (Diptera) mosquitoes in Surat, Gujarat and their potential disease relationship. *Indian J. Pub. Health* 24(2):76-81.
- Reid, J. A. 1982. Distribution patterns in the *Anopheles maculipennis* group. *Mosquito Systematics* 14(2):135-136.
- Reinert, J. F. 1982. *Belkinius*, a new subgenus of *Aedes* and a description of *Ae. (Blk.) aurotaeniatus* Edwards (Diptera: Culicidae). *Mosquito Systematics* 14(2):101-121.
- Reinert, J. F. 1982. Abbreviations for mosquito generic and subgeneric taxa established since 1975 (Diptera: Culicidae). *Mosquito Systematics* 14(2):124-126.
- Reinert, J. F. and Chau, G. W. 1982. The first record of *Canacraedus* from Hong Kong and a new distribution of *Aedes (Can.) penghuensis* (Diptera: Culicidae). *Mosquito Systematics* 14(2):122-123.
- Ribeiro, H., Danilov, V. N. and da Cunha Ramos, H. 1982. Description of the fourth instar larva of *Culex (Culex) trifalatus trifilatus* Edwards, 1914 (Diptera, Culicidae). *Mosquito Systematics* 14(2):94-100.
- Savitsky, B. P. 1982. Bloodsucking mosquitoes (Culicidae) attacking man in the region of eastern Manych (Kalmyk ASSR). *Parazitologiya* 16(2):163-165. In Rus., Engl. Sum.
- Service, M. W. 1982. Identification of Afro-tropical culicines. *Mosquito Systematics* 14(2):137.

SEVERAL DISEASES

- Gusmão, H. H. 1982. Fighting disease-bearing mosquitoes through relentless field leadership. *Amer. J. Trop. Med. and Hyg.* 31(4):705-710.
- Krishnamoorthy, K. and Livingstone, D. 1980. Vector potential of some tree-hole-breeding mosquitoes of the scrub jungles of the Palghat Gap—India. *Proc. Indian Natl. Sci. Acad.* 46B(6):769-785.
- Pan American Health Organization. 1982. Emergency vector control after natural disaster. *Pan Amer. Health Organ. Sci. Pub. No. 419*, 98 pp. [Mosquito-borne diseases included.]
- Pan American Health Organization. 1982. Health conditions in the Americas 1977-1980. *Pan. Amer. Health Organ. Sci. Pub. 427*, 385 pp. [Mosquito-borne diseases included.]
- Western, K. A. 1982. Epidemiologic surveillance after disaster. *Pan Amer. Health Organ. Sci. Pub. No. 420*, 94 pp.
- See also Giglioli in *Arboviruses—Yellow Fever Section*.

ARBOVIRUSES AND OTHER VERTEBRATE VIRUSES

- Beatty, B. J. and Coauthors. 1982. Molecular basis of bunyavirus *per os* infection of mosquitoes: role of the middle-sized RNA segment. *Proc. Natl. Acad. Sci. USA* 79(4):1295-1297.
- Beatty, B. J., Hildreth, S. W., Blendon, D. C. and Casals, J. 1982. Detection of La Crosse (California encephalitis) virus antigen in mouse skin samples. *Amer. J. Vet. Res.* 43(4):684-687.
- Belloncik, S. and Coauthors. 1982. Activity of California encephalitis group viruses in Entrelacs (province of Quebec, Canada). *Canad. J. Microbiol.* 28(6):572-579.
- Braverman, Y. and Swanepoel, R. 1981. Infection and transmission trials with Nyabira virus in *Aedes aegypti* (Diptera, Culicidae) and two species of *Culicoides* (Diptera, Ceratopogonidae). *Zimbabwe Vet. J.* 12(1):13-17.
- Brinton, M. A., Arnheiter, H. and Haller, O. 1982. Interferon independence of genetically controlled resistance to flaviviruses. *Infect. and Immunity* 36(1):284-288.
- Cash, P. 1982. Inhibition of La Crosse virus

- replication by monensin, a monovalent ionophore. *J. General Virol.* 59(1):193-196.
- Cupp, E. W. and Kemen, M. J. 1980. The role of stable flies and mosquitoes in the transmission of equine infectious anemia virus. *Proc. Annual Meet. US Animal Health Assoc.* 84:362-367.
- Downs, W. G. 1982. The Rockefeller Foundation Virus Program: 1951-1971 with update to 1981. *Ann. Rev. Medicine* 33:1-29.
- Emmons, R. W. and Coauthors. 1981. Surveillance for arthropod-borne viral activity and disease in California during 1980. *Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc.* 49:1-4. (Pub. 1982).
- Fagbami, A. H. 1979. Studies on transmission of Tataguine virus by *Culex (pipens) fatigans* mosquitoes. *Afr. J. Medicine and Med. Sci.* 8(1-2):31-33.
- Fukunaga, Y. and Coauthors. 1981. Isolation of Picornavirus from horses associated with Getah virus infection. *Jap. J. Vet. Sci.* 43(4):569-572.
- Han, H. D. 1981. Propagation and persistent infection of Akabane virus in cultured mosquito cells. *Jap. J. Vet. Sci.* 43(5):689-697.
- Hashiguchi, Y., Murakami, Y. and Nanba, K. 1981. Responses of pregnant ewes inoculated with Akabane disease live virus vaccine. *Nat. Inst. Animal Health Quart. (Tokyo)* 21(3):113-120.
- Hildreth, S. W. and Coauthors. 1982. Detection of La Crosse arbovirus antigen in mosquito pools: application of chromogenic and fluorogenic enzyme immunoassay systems. *J. Clin. Microbiol.* 15(5):879-884.
- Hubálek, Z. and Bárdos, V. 1981. Effect of cyclophosphamide on the infection of mice with Tahyna virus. *Zentbl. Bakt. Hyg. I. Abt. Orig. A* 251(2):145-151.
- Igarashi, A. and Coauthors. 1981. Mutants of Getah and Japanese encephalitis viruses isolated from field-caught *Culex tritaeniorhynchus* using *Aedes albopictus* clone C6/36 cells. *Ann. de Virologie (Inst. Pasteur)* 132B(2):235-245.
- Jerabek, J. 1980. Applicability of Shope fibroma virus replicated in cell cultures for immunoprophylaxis of rabbit myxomatosis. *Acta Vet. Brno* 49(3-4):259-267.
- Johnson, B. K. and Coauthors. 1982. Marburg, Ebola and Rift Valley fever virus antibodies in East African primates. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(3):307-310.
- Juricova, Z. and Hubálek, Z. 1982. Experience with the use of goose erythrocytes in haemagglutination titration of Tahyna virus. *Biologiča (Bratislava)* 37(7):701-705. In Czech., Engl. Sum.
- Kay, B. H., Fanning, I. D. and Carley, J. G. 1982. Vector competence of *Culex pipiens quinquefasciatus* for Murray Valley encephalitis, Kunjin, and Ross River viruses from Australia. *Amer. J. Trop. Med. and Hyg.* 31(4):844-848.
- Matsumura, T. and Coauthors. 1981. Prevalence of antibodies against Getah virus in horses raised in Hokkaido. *Jap. J. Vet. Sci.* 43(5):783-786.
- Matthews, R. E. F. and Maurin, J. 1981. Classification et nomenclature des virus. Résumé des décisions du Comité International de Taxonomie des Virus. *Ann. de Virologie (Inst. Pasteur)* 132E(4):563-573.
- McLean, D. M. 1982. Bunyavirus isolations from Yukon mosquitoes 1972-1981. *Mosquito News* 42(3):324-329.
- Ou, J. H., Trent, D. W. and Strauss, J. H. 1982. The 3'-non-coding regions of alphavirus RNAs contain repeating sequences. *J. Molecular Biol.* 156(4):719-730.
- Peiris, J. S. M. and Porterfield, J. S. 1982. Antibody-dependent plaque enhancement: its antigenic specificity in relation to togaviridae. *J. General Virol.* 58(2):291-296.
- Reeves, W. C. 1982. A memorial to Finlay, Reed, Gorgas and Soper as major contributors to present day concepts essential for control of mosquito-borne arboviruses. *Mosquito News* 42(3):313-319. [Data on 1982 Lecturer pp. 320-321.]
- Rollin, P. E. and Coauthors. 1982. Résultats d'enquêtes séroépidémiologiques récentes sur les arboviroses en Camargue: populations humaines, équines, bovines et aviaires. *Méd. et Maladies Infectieuses* 12(2):77-80. Engl. Sum.
- Rosen, L. and Shroyer, D. A. 1981. Natural carbon dioxide sensitivity in mosquitoes caused by a hereditary virus. *Ann. de Virologie (Inst. Pasteur)* 132 E(4):543-549.
- Saluzzo, J. F., Ivanoff, B., Languillat, G. and Georges, A. J. 1982. Serological survey for arbovirus antibodies in the human and simian populations of the South-East of Gabon. *Bul. Soc. de Path. Exot.* 75(3):262-266. In Fr., Engl. Sum.
- Tesh, R. B. 1982. Arthritides caused by mosquito-borne viruses. *Ann. Rev. Medicine* 33:31-40.
- Turell, M. J., Reeves, W. C. and Hardy, J. L. 1982. Transovarial and trans-stadial transmission of California encephalitis virus

in *Aedes dorsalis* and *Aedes melanimon*. Amer. J. Trop. Med. and Hyg. 31(5):1021-1029.

Wright, P. J. 1982. Envelope protein of the flavivirus Kunjin is apparently not glycosylated. J. General Virol. 59(1):29-38.

See also Degalier in Booklets and Reports Section.

Arboviruses—Dengue

Acevedo, J., Casanova, M. F., Antonini, A. C. and Morales, H. 1982. Acute polyneuritis associated with dengue. Lancet 8285:1357.

Chaturvedi, U. C., Gulati, L. and Mathur, A. 1982. Inhibition of E-rosette formation and phagocytosis by human blood leucocytes after treatment with the dengue virus-induced cytotoxic factor. Immunology 45(4):679-685.

Chaturvedi, U. C., Shukla, M. I. and Mathur, A. 1982. Role of macrophages in the transmission of dengue virus-induced suppressor signal to a subpopulation of T lymphocytes. Ann. d'Immunol. (Paris) 133C(1):83-86.

Dittmar, D., Castro, A. and Haines, H. 1982. Replication of dengue virus in cultured mosquito cells at suboptimal temperature. Proc. Soc. Expt. Biol. and Med. 170(1):68-74.

Figueroa, M. and Coauthors 1982. Dengue epidemic in Honduras, 1978-1980. Bul. Panamer. Health Organ. 16(2):130-137.

Halstead, S. B. 1982. Dengue: hematologic aspects. Seminars in Hematology 19(2):116-131.

Henchal, E. A., Gentry, M. K., McCown, J. M. and Brandt, W. E. 1982. Dengue virus-specific and flavivirus group determinants identified with monoclonal antibodies by indirect immunofluorescence. Amer. J. Trop. Med. and Hyg. 31(4):830-836.

Jousset, F. X. 1981. Geographic *Aedes aegypti* strains and dengue-2 virus: susceptibility, ability to transmit to vertebrate and transovarial transmission. Ann. de Virologie 132(3):357-370.

Le Gonidec, G., Quene, J. P. and Fauran, P. 1982. On an outbreak caused by dengue type 4 virus, in Thio, New Caledonia. Epidemiological and clinical aspects. Bul. Soc. de Path. Exot. 75(2):141-150. In Fr., Engl. Sum.

Lisukova, T. E. and Astafyeva, N. V. 1981.

Clinical picture of imported dengue. Sovetskaya Med. (12):94-95. In Rus.

Sengupta, B. S. 1981. Some unusual gynaecological observations during an outbreak of dengue in Kingston, Jamaica. Trop. and Geog. Med. 33(4):397-399.

Suvatte, V. 1981. Part 2. Tropical Asia. [Dengue.] Clinics in Haematol. 10(3):933-962.

Wei, X. A. 1981. Clinical analysis of 583 cases of dengue fever. Chung Hua I Hsueh Tsa Chih 61(8):470-474. In Chin., Engl. Sum.

Zhao, H. L. 1981. The epidemic of dengue fever at Shiwanzhen of Forshan City in 1978. Chung Hua I Hsueh Tsa Chih 61(8):466-469. In Chin., Engl. Sum.

Arboviruses—Eastern Encephalitis

Pierson, J. W. and Morris, C. D. 1982. Epizootiology of eastern equine encephalomyelitis virus in upstate New York, USA. IV. Distribution of *Culiseta* (Diptera: Culicidae) larvae in a freshwater swamp. J. Med. Ent. 19(4):423-428.

Arboviruses—Japanese encephalitis

Bundo, K., Morita, K. and Igarashi, A. 1982. Enzyme-linked immunosorbent assay (ELISA) on Japanese encephalitis virus. III. Assay on antibody titers in swine sera. Trop. Med. (Nagasaki) 24(2):87-102. Jap. Sum.

Chakraborty, M. S., Chakravarti, S. K., Mukherjee, K. K. and Mitra, A. C. 1980. Inapparent infection by Japanese encephalitis (JE) virus in West Bengal. Indian J. Pub. Health 24(3):121-127.

Cherednichenko, Yu. N. 1982. Persistence of Japanese encephalitis virus clones in continuous HeLa cells. Voprosy Virusologii 27(2):203-207. In Rus., Engl. Sum.

Igarashi, A. and Coauthors. 1982. Isolation of Japanese encephalitis and Getah viruses from mosquitoes collected in Nagasaki City in the year of 1980 and 1981, using *Aedes albopictus* clone C6/36 cells. Trop. Med. (Nagasaki) 24(1):47-53. Jap. Sum.

Kaizuka, I. and Coauthors. 1979. Characteristics of the attenuated S strain of Japanese encephalitis virus propagated in cultured swine testicle cells. Ann. Rpt. Natl. Vet. Assay Lab No. 16:3-9. In Jap., Engl. Sum.

Mathur, A., Arora, K. L. and Chaturvedi, U. C. 1982. Transplacental Japanese encephalitis virus (JEV) infection in mice during con-

- secutive pregnancies. *J. General Virol.* 59(1):213-217.
- Mathur, A. and Coauthors. 1982. Japanese encephalitis epidemic in Uttar Pradesh, India during 1978. *Indian J. Med. Res* 75(Feb.):161-169.
- Mikhailova, G. R., Cherednichenko, Yu. N., Gushchin, B. V. and Gushchina, E. A. 1982. A study of two cell systems persistently infected with Japanese Encephalitis virus. *Tsitologiya i Genetika* 16(1):6-9. In Rus., Engl. Sum.
- Susilowati, S. and Coauthors. 1981. Neutralization antibody responses induced by Japanese encephalitis virus vaccine. *Biken J.* 24(4):137-145.
- Arboviruses—Rift Valley Fever*
- El-Gibali, G. M. 1981. Epidemiological study of outbreak of Rift Valley fever (R.V.F.) during October–November 1977, among military personnel. *Revue Internat. des Services de Santé Armées de Ter, de Mer et de l'Air* 54(3):199-204.
- Kark, J. D. and Coauthors. 1982. A serological survey of Rift Valley fever antibodies in the northern Sinai. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):427-430.
- Moussa, M. I., Wood, O. L. and Abdel Wahab, S. E. 1982. Reduced pathogenicity associated with a small plaque variant of the Egyptian strain of Rift Valley fever virus (ZH501). *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):482-486.
- Sellers, R. F., Pedgley, D. E. and Tucker, M. R. 1982. Rift Valley fever, Egypt 1977: disease spread by windborne insect vectors? *Vet. Record* 110(4):73-77.
- Shope, R. E., Peters, C. J. and Davies, F. G. 1982. The spread of Rift Valley fever and approaches to its control. *Bul. WHO* 60(3):299-304.
- Taylor, P. and Swanepoel, R. 1980. Observations on mosquitoes, midges and rodents during the 1978 Rift Valley fever epizootic in Zimbabwe. *Zimbabwe Vet. J.* 11(3-4):44-46.
- Arboviruses—Semliki Forest*
- Atkins, G. J. and Sheahan, B. J. 1982. Semliki Forest virus neurovirulence mutants have altered cytopathogenicity for central nervous system cells. *Infect. and Immunity* 36(1):333-341.
- Garoff, H., Riedel, H. and Lehrach, H. 1982. A procedure to verify an amino acid sequence which has been derived from a nucleotide sequence: application to the 26S RNA of Semliki Forest virus. *Nucleic Acids Research* 10(2):675-687.
- Kondonkoch, C. and Garoff, H. 1982. Construction of a hybrid plasmid molecule containing the total coding region of Semliki Forest virus 26S mRNA. *J. General Virol.* 58(2):443-448.
- Lehtovaara, P. and Coauthors. 1982. Extreme ends of the genome are conserved and rearranged in the defective interfering RNAs of Semliki Forest virus. *J. Molecular Biol.* 156(4):731-748.
- Lenard, J. and Miller, D. K. 1982. Uncoating of enveloped viruses. *Cell* 28(1):5-6. [Semliki Forest virus.]
- Reigel, F. and Koblet, H. 1981. Viral proteins from SFV infected *Aedes* cells with unusual mol. wt. *Experientia* 37(11):1220.
- Riedel, H., Lehrach, H. and Garoff, H. 1982. Nucleotide sequence at the junction between the nonstructural and the structural genes of the Semliki Forest virus genome. *J. Virology* 42(2):725-729.
- Simons, K., Garoff, H. and Helenius, A. 1982. How an animal virus gets into and out of its host cell. *Scientific Amer.* 246(2):58-66. [Semliki Forest virus.]
- Stalder, J., Reigel, F., Flaviano, A. and Koblet, H. 1981. Infection of the *Aedes albopictus* cell clone C6/36 with Semliki Forest virus. *Experientia* 37(11):1229.
- Väänänen, P. 1982. The use of red cells with fused Semliki Forest virus envelope proteins in antibody determinations by hemolysis in gel. *J. Virological Methods* 4(2):117-126.
- Arboviruses—Sindbis*
- Bell, J. R., Rice, C. M., Hunkapiller, M. W. and Strauss, J. H. 1982. The N-terminus of PE2 in Sindbis virus-infected cells. *Virology* 119(2):255-267.
- Bonatti, S. and Cancedda, F. D. 1982. Post-translational modifications of Sindbis virus glycoproteins: electrophoretic analysis of pulse-chase-labeled infected cells. *J. Virology* 42(1):64-70.
- Collins, P. L. and Coauthors. 1982. Synthesis and processing of Sindbis virus nonstructural proteins *in vitro*. *Virology* 118(2):363-379.
- Eaton, B. T. 1982. Transient enhanced synthesis of a cellular protein following infection of

- Aedes albopictus* cells with Sindbis virus. *Virology* 117(2):307-321.
- Hakimi, J. and Atkinson, P. H. 1982. Glycosylation of intracellular Sindbis virus glycoproteins. *Biochemistry* 21(9):2140-2145.
- Hirsch, R. L. and Griffin, D. E. 1981. Development of age-dependent resistance to Sindbis virus encephalitis: correlation with inactivation of virus within the blood stream. *Antiviral Research* 1(4):263-267.
- Mokhtarian, F., Griffin, D. E. and Hirsch, R. L. 1982. Production of mononuclear cell chemotactic factors during Sindbis virus infection of mice. *Infect. and Immunity* 35(3):965-973.
- Nozawa, C. M. and Apostolov, K. 1982. Association of the cytopathic effect of Sindbis virus with increased fatty acid saturation. *J. General Virol.* 59(1):219-222.
- Skogh, M. and Espmark, A. 1982. Ockelbo disease: epidemic arthritis-exanthema syndrome in Sweden caused by sindbis-virus like agent. *Lancet* 8275:795-798.
- Stanton, G. J., Langford, M. P. and Dianzani, F. 1981. Virus yield-reduction assay for interferon by titration of Sindbis virus hemagglutinin. *In Interferons*, P.T.A. Methods in Enzymology 78:351-357. New York. Academic Press.
- Talbot, P. J. and Vance, D. E. 1982. Biochemical studies on the entry of Sindbis virus into BHK-21 cells and the effect of NH₄Cl. *Virology* 118(2):451-455.
- Weigent, D. A. and Coauthors. 1981. Virus yield-reduction assay for interferon by titration of infectious virus. *Methods in Enzymol.* 78A:346-351.
- Wengler, G. and Coauthors. 1982. The core protein of the alphavirus Sindbis virus assembles into core-like nucleoproteins with the viral genome RNA and with other single-stranded nucleic acids *in vitro*. *Virology* 118(2):401-410.
- Wolcott, J. A., Gates, D. W., Wust, C. J. and Brown, A. 1982. Cross-reactive, cell-associated antigen on L₉₂₉ cells infected with temperature-sensitive mutants of Sindbis virus. *Infect. and Immunity* 36(2):704-709.
- Arboviruses—St. Louis Encephalitis*
- Anderson, B. D. and Mays, C. E. 1979. A study of a population of *Passer domesticus* that has been shown to be carrying St. Louis encephalitis. *Proc. Indiana Acad. Sci.* 88:436-447.
- Arboviruses—Venezuelan Equine Encephalitis*
- Gaidamovich, S. Ya., Melnikova, E. E. and Obukhova, V. R. 1980. Radial haemolysis in gel used in serological studies on Venezuelan equine encephalomyelitis virus. *Acta Virologica* 25(1):36-40.
- González G., G. and Torres R., M. L. 1980. Distribution des anticorps contre les Encephalites Equines Vénézuélienne, Est et Ouest en Colombie en 1977. *Bul. Office Internat. des Epizooties* 92(3-4):87-110.
- Melik-Andreasyan, G. G. and Coauthors. 1981. Use of continuous lymphoblastoid lines of human cells (of T- and β -origin) for production of persistent infection by tick-borne encephalitis and Venezuelan equine encephalomyelitis viruses. *Voprosy Virusologii* No. 2:203-206. *In Rus., Engl. Sum.*
- Mellink, J. J. 1982. Transmission of Venezuelan equine encephalomyelitis virus by *Aedes aegypti* (Diptera: Culicidae) to mice previously exposed to vector antigens. *J. Med. Ent.* 19(4):371-375.
- Scherer, W. F. and Coauthors. 1982. Mesenteric infection threshold of an epizootic strain of Venezuelan encephalitis virus in *Culex (Melanoconion) taeniopus* mosquitoes and its implication to the apparent disappearance of this virus strain from an enzootic habitat in Guatemala. *Amer. J. Trop. Med. and Hyg.* 31(5):1030-1037.
- Arboviruses—West Nile*
- Akhter, R., Hayes, C. G., Baqar, S. and Reisen, W. K. 1982. West Nile virus in Pakistan. III. Comparative vector capability of *Culex tritaeniorhynchus* and eight other species of mosquitoes. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):449-453.
- Brinton, M. A. 1982. Characterization of West Nile virus persistent infections in genetically resistant and susceptible mouse cells. I. Generation of defective nonplaquing virus particles. *Virology* 116(1):84-98.
- Hayes, C. G. and Coauthors. 1982. West Nile virus in Pakistan. I. Sero-epidemiological studies in Punjab Province. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):431-436.
- Kislenko, G. S. and Coauthors. 1982. Study of Powassan and West Nile viruses reproduction in *Aedes aegypti* mosquitoes and in their cell culture. *Med. Parazit. i Parazit. Bolezni* 60(3):13-15. *In Rus., Engl. Sum.*
- Peiris, J. S. M., Porterfield, J. S. and Roehrig, J.

- T. 1982. Monoclonal antibodies against the flavivirus West Nile. *J. General Virol.* 58(2):283-289.
- Reisen, W. K. and Coauthors. 1982. West Nile virus in Pakistan. II. Entomological studies at Changa Manga National Forest, Punjab Province. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):437-448.
- Zhankov, A. I., Dzhivanyan, T. I. and Lashkevich, V.A. 1982. Heterogeneity of virus-specific proteins of flaviviruses. *Voprosy Virusologii* 27(3):320-323. In Rus., Engl. Sum. [West Nile included.]
- Arboviruses—Western Equine Encephalitis*
- Hashimoto, K. and Simizu, B. 1982. A temperature-sensitive mutant of western equine encephalitis virus with an altered envelope protein E 1 and a defect in the grasport of envelope glycoproteins. *Virology* 119(2):276-287.
- Arboviruses—Yellow Fever*
- Cornet, J. P. and Coauthors. 1982. Experimental transmission of the yellow fever virus by the tick *Amblyomma variegatum* (F.). *Bul. Soc. de Path. Exot.* 75(2):136-140. In Fr., Engl. Sum.
- Fagraeus, A. and Coauthors. 1982. Characterization of blood mononuclear cells reacting with K 562 cells after yellow fever vaccination. *Cellular Immunol.* 67(1):37-48.
- Giglioli, M. E. C. 1982. Operational programs in developing countries. *Mosquito News* 42(3):333-341.
- McCrae, A. W. R. and Kirya, B. G. 1982. Yellow fever and Zika virus epizootics and enzootics in Uganda. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):552-562.
- territory of Wallis and Futuna. *Méd. Trop. (Marseille)* 41(6):665-669. In Fr., Engl. Sum.
- Franz, M. and Lenze, W. 1982. Scanning electron microscope study of adult *Brugia malayi*. *Tropenmed. u. Parasitol.* 33(1):17-22.
- Gayral, P., Dreyfuss, G. and Gantier, J. C. 1982. *Dipetalonema dessetae* in *Proechimys oris*. II. Evaluation of the model for pharmacologic investigations of antifilarial chemotherapy. *J. Pharmacol. (Paris)* 13(1):49-53. [*Aedes aegypti* as vector.]
- Jusuf, A. and Cross, J. H. 1979. Distribution and prevalence of cases of microfilaraemia in Indonesia. *Bul. Penelitian Kesehatan* 7(2):14-20.
- Karavodin, L. M. and Ash, L. R. 1982. Inhibition of adherence and cytotoxicity by circulating immune complexes formed in experimental filariasis. *Parasite Immunol.* 4(1):1-12.
- Kazura, J. W. and Davis, R. S. 1982. Soluble *Brugia malayi* microfilarial antigens protect mice against challenge by an antibody-dependent mechanism. *J. Immunol.* 128(4):1792-1796.
- Mak, J. W., Lim, P. K. C., Sim, B. K. L. and Liew, L. M. 1982. *In vitro* cultivation of *Brugia malayi* and *Brugia pahangi* infective larvae to fourth-stage and juvenile adult stage. *WHO/FIL/82.169*, 2 pp.
- McGreevy, P. B. and Coauthors. 1982. Ingestion and development of *Wuchereria bancrofti* in *Culex quinquefasciatus*, *Anopheles gambiae* and *Aedes aegypti* after feeding on humans with varying densities of microfilariae in Tanzania. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(3):288-296.
- McMahon, J. E. 1982. The examination—time/dose interval in the provocation of nocturnally periodic microfilariae of *Wuchereria bancrofti* with diethylcarbamazine and the practical uses of the test. *Tropenmed. u. Parasitol.* 33(1):28-30.
- Mohamed, N. H., Rifaat, M. A., Abdel Baki, M. H. and Sarwat, M. A. 1981. The incidence and clinical picture of filariasis and the rate of infectivity of mosquitoes in Giza and Sharkia Governorates, A.R.E. *J. Egypt. Soc. Parasitol.* 11(1):131-135.
- Nuti, M., Ferrari, J. D. M. and Au, A. C. S. 1982. Seroepidemiology of Bancroftian filariasis in the Seychelles Islands. *Tropenmed. u. Parasitol.* 33(1):25-27.
- Ottesen, E. A., Weller, P. F., Lunde, M. N. and Hussain, R. 1982. Endemic filariasis on a Pacific island. II. Immunologic aspects: immunoglobulin, complement, and specific

FILARIASIS

- Abdel-Magied, S. A. 1981. Leucocytic agglutination using *Litomosoides carenii* cuticular antigen and the serum of bancroftian filariasis. *J. Egypt. Soc. Parasitol.* 11(1):167-170.
- Crandall, R. B. and Coauthors. 1982. The ferret (*Mustela putorius furo*) as an experimental host for *Brugia malayi* and *Brugia pahangi*. *Amer. J. Trop. Med. and Hyg.* 31(4):752-759.
- Fauran, P. and Coauthors. 1981. *Wuchereria bancrofti* human aperiodic filariasis in French

- antifilariae IgG, IgM and IgE antibodies. Amer. J. Trop. Med. and Hyg. 31(5):953-961.
- Pandya, A. P. and Mehta, N. R. 1977. Studies on the vector of filariasis—effect of abiotic factors on vector and filariae (*W. bancrofti*). Indian J. Preventive and Social Med. 8(3):99-101.
- Petit, G. 1981. Intake of microfilariae by the vector for a periodic filarioid, *Dipetalonema dessetae*. Ann. de Parasitol. Humaine et Compar. 56(5):531-539. In Fr., Engl. Sum. [*Aedes aegypti* included.]
- Petit, G. and Pichon, G. 1982. Intake of microfilariae by the vector in the case of a low microfilaraemia. Ann. de Parasitol. Humaine et Compar. 57(1):73-78. In Fr., Engl. Sum. [*Aedes aegypti*.]
- Pividal Grana, J. A. and Ramírez Brizuela, A. 1981. Selección de una técnica de diagnóstico directo para la filariasis. Revista Cubana Med. Trop. 33(3):210-214. Engl. Sum. [*Wuchereria bancrofti*.]
- Rao, C. K. and Coauthors. 1982. General morbidity, leprosy, scabies and common cold in association with bancroftian filariasis in East Godavari district (A.P.). Indian J. Med. Res. 75(May):667-672.
- Rao, C. K. and Coauthors. 1982. Impact of control measures on prevalence and incidence of bancroftian filariasis in East Godavari district (Andhra Pradesh). Indian J. Med. Res. 75(Apr.):515-520.
- Rifaat, M. A. and Coauthors. 1981. Comparison of counter-immunoelectrophoresis with other tests in the diagnosis of bancroftian filariasis. J. Egypt. Soc. Parasitol. 11(1):163-166.
- Ripert, C. and Coauthors. 1982. Epidemiological study of bancroftian filariasis in the Logone Valley (North Cameroon). Méd. Trop. (Marseille) 42(1):59-66. In Fr., Engl. Sum.
- Sakamoto, M., Aoki, Y. and Nakajima, Y. 1982. Experimental transmission of *Brugia pahangi* into mice. Trop. Med. (Nagasaki) 24(1):17-25. In Jap., Engl. Sum.
- Sim, B. K. L., Kwa, B. H. and Mak, J. W. 1982. Immune responses in human *Brugia malayi* infections: serum dependent cell-mediated destruction of infective larvae *in vitro*. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):362-370.
- Storey, D. M. and Al-Mukhtar, A. S. 1982. Vaccination of jirds, *Meriones unguiculatus*, against *Litomosoides carinii* and *Brugia pahangi* using irradiated larvae of *L. carinii*. Tropenmed. u. Parasitol. 33(1):23-24.
- Tada, I. and Coauthors. 1982. Skin test study of Bancroftian filariasis in Kuroshima Island, Okinawa: a 13-year longitudinal study during a control campaign. Amer. J. Trop. Med. and Hyg. 31(5):962-967.
- Vargas, M., Abreu, E. and Vargas Matos, N. 1981. Prevalencia y periodicidad de la filaria de Bancroft en sangre diurna de la población del Batey Ocho Central Barahona, Republica Dominicana. Bol. Asoc. Méd. de Puerto Rico 73(10):497-502.
- Vincent, A. L. and Coauthors. 1982. Non-development of *Wuchereria bancrofti* in nude (congenitally athymic) mice. Amer. J. Trop. Med. and Hyg. 31(5):1062-1064.
- Vincent, A. L., Vickery, A. C., Winters, A. and Sodeman, W. A., Jr. 1982. Life cycle of *Brugia pahangi* (Nematoda) in nude mice, C3H/HeN (*nulmu*). J. Parasitol. 68(4):553-560.
- Weller, P. F. and Coauthors. 1982. Endemic filariasis on a Pacific island. I. Clinical, epidemiologic, and parasitologic aspects. Amer. J. Trop. Med. and Hyg. 31(5):942-952.
- Wijeyaratne, P. M., Singha, P., Verma, O. P. and Motha, B. 1982. Evaluation of the diethylcarbamazine provocative test in the diagnosis of *Wuchereria bancrofti* infections in the Nigerian savanna and the effects on *Dipetalonema perstans*. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):387-391.
- Wong, M. M., O'Rourke, M. and Ling, S. 1982. Experimental infection of *Brugia pahangi* in inbred mice. WHO/FIL/82.170, 6 pp.
- Xu, J., Ren, Y. and Yuan, Y. 1981. Studies on the morphology and life cycle of *Breimlia sergenti*. Acta Zool. Sinica 27(4):365-370. In Chin., Engl. Sum. [*Cx. pipiens pallens* and *Ae. albopictus*.]
- Yap, H. K. and Coauthors. 1982. The nephrotic syndrome associated with filariasis. Ann. Acad. Med. Singapore 11(1):61-63. [*Brugia malayi* included.]
- Yen, P. K. F., Zaman, V. and Mak, J. W. 1982. Identification of some common infective filarial larvae in Malaysia. J. Helminthol. 56(1):69-80.

Filariasis—*Dirofilaria*

- Acevedo, R. A. and Theis, J. H. 1982. Prevalence of heartworm (*Dirofilaria immitis* Leidy) in coyotes from five northern California counties. Amer. J. Trop. Med. and Hyg. 31(5):968-972.
- Calvert, C. A. and Mandell, C. P. 1982. Diag-

- nosis and management of feline heartworm disease. J. Amer. Vet. Med. Assoc. 180(5):550-552.
- Caravelli, J. F., Zaman, M. B. and Bains, M. S. 1981. Human pulmonary *Dirofilaria immitis* mimicking metastatic disease. Clin. Bul. 11(2):88-90.
- Castleman, W. L. and Wong, M. M. 1982. Light and electron microscopic pulmonary lesions associated with retained microfilariae in canine occult dirofilariasis. Vet. Path. 19(4):355-364.
- Comley, J. C. W., Jaffe, J. J. and Chrin, L. R. 1982. Glycosyl transferase activity in homogenates of adult *Dirofilaria immitis*. Molecular and Biochem. Parasitol. 5(1):19-31.
- Corselli, N. J. and Platzer, E. G. 1981. Canine heartworm: disease focus along the lower Colorado River. Proc. and Papers Calif. Mosquito and Vect. Cont. Assoc. 49:5-8. (Pub. 1982).
- Falls, R. K. and Platt, T. R. 1982. Survey for heartworm. *Dirofilaria immitis*, and *Dipetalonema reconditum* (Nematoda: Filarioidea) in dogs from Virginia and North Carolina. Amer. J. Vet. Res. 43(4):738-739.
- Franz, M., Volkmer, K. J. and Lenze, W. 1982. A case of dirofilariasis in man (subgenus *Nochtiella*): a scanning electron microscope study. Tropenmed. u. Parasitol. 33(1):31-32.
- Miller, W. R. and Merton, D. A. 1982. Dirofilariasis in a ferret. J. Amer. Vet. Med. Assoc. 180(9):1103-1104.
- Pasquier, P. and Coauthors. 1982. Dirofilariasis, an unknown parasitosis. One case observed in Paris. Bul. Soc. de Path. Exot. 75(3):311-314. In Fr., Engl. Sum.
- Rawlings, C. A. 1982. Clinical laboratory evaluations of seven heartworm infected beagles: during disease development and following treatment. Cornell Vet. 72(1):49-56.
- Rawlings, C. A. and Coauthors. 1982. Four types of occult *Dirofilaria immitis* infection in dogs. J. Amer. Vet. Med. Assoc. 180(11):1323-1326.
- Schaub, R. G., Rawlings, C. A. and Keith, J. C., Jr. 1981. Effect of long-term aspirin treatment on platelet adhesion to chronically damaged canine pulmonary arteries. Thrombosis and Haemostasis 46(4):680-683.
- Scherr, G. H. 1982. A diagnostic test for the dog heartworm, *Dirofilaria immitis*. Vet. and Human Toxicol. 24(1):1-7.
- MALARIA
- Bradley, A. K. and Coauthors. 1982. Malumfashi Endemic Diseases Research Project, XIX. Demographic findings: population structure and fertility. Ann. Trop. Med. and Parasitol. 76(4):381-391. [Malaria included.]
- Bradley, A. K. and Coauthors. 1982. Malumfashi Endemic Diseases Research Project, XX. Demographic findings: mortality. Ann. Trop. Med. and Parasitol. 76(4):393-404.
- Bruce-Chwatt, L. J. 1982. Fatal falciparum malaria and the availability of parenteral antimalarial drugs in hospitals. Brit. Med. J. 284(6331):1786.
- Bruce-Chwatt, L. J. 1982. *Plasmodium falciparum* malaria in Nigerians who live in Britain. Brit. Med. J. 284(6326):1407-1408.
- Chianta, A., Chiono, L., Profumo, E. and Testa, S. 1981. Le alterazioni renali in corso di malaria. Arch. per le Sci. Med. (Torino) 138(4):459-466. Engl. Sum.
- Conroy, M. S. 1982. Malaria in late Tsarist Russia. Bul. Hist. Med. 56(1):41-55.
- Coulter, J. B. S. 1982. Tailoring malaria prophylaxis to geography. Lancet 8276:861-862.
- Darlow, B., Vrbova, H. and Stace, J. 1981. Acute malaria in children in Madang: endemicity, clinical presentation and treatment. Papua New Guinea Med. J. 24(2):85-95.
- Díaz Hernández, A., Hernández Rodríguez, P. and Pérez Benítez, M. 1981. Insuficiencia de médula ósea en el desarrollo del paludismo falciparum. Revista Cubana Med. Trop. 33(3):157-164. Engl. Sum.
- Díaz Hernández, A. and Hernández Rodríguez, P. 1981. Complicaciones pulmonares en el paludismo falciparum. Revista Cubana Med. Trop. 33(3):165-172. Engl. Sum.
- Druilhe, P. and Coauthors. 1982. Circulating interferon in patients with *Plasmodium falciparum*, *P. ovale* and *P. vivax* malaria. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):422-423.
- Edirisinghe, J. S., Fern, E. B. and Targett, G. A. T. 1981. The influence of dietary protein on the development of malaria. Ann. Trop. Paediatrics 1(2):87-91.
- Fleming, A. F. 1981. Haematological manifestations of malaria and other parasitic diseases. Clinics in Haematol. 10(3):983-1011.
- Gordon-Smith, E. C. 1982. Malaria management of a peripatetic problem. Seminars in Hematology 19(2):148-151.
- Guerrero, I. C., Chin, W. and Collins, W. E.

1982. A survey of malaria in Indochinese refugees arriving in the United States, 1980. *Amer. J. Trop. Med. and Hyg.* 31(5):897-901.
- Heuer, L. J. 1982. Schon kein ganz seltener Fall mehr: Malaria tertiana. *Therapie der Gegenwart* 121(1):37-41.
- Lal, H., Singh, N. and Kumar, L. R. 1981. Neonatal malaria. *Indian J. Pediatrics* 48(391):189-192.
- MacLeod, C. L. and Coauthors. 1982. Double malaria infection in a six-week-old infant. *Amer. J. Trop. Med. and Hyg.* 31(5):893-896.
- Movsumzade, K. M. 1982. Survival of Gd-allele carriers under malaria-free conditions. *Genetica* 18(7):1169-1172. In *Rus. Engl. Sum.*
- Newbold, C. I., Boyle, D. B., Smith, C. C. and Brown, K. N. 1982. Identification of a schizont- and species-specific surface glycoprotein on erythrocytes infected with rodent malaras. *Molecular and Biochem. Parasitol.* 5(1):45-54.
- Patodi, R. K., Sharma, S. K. and Mittal, M. C. 1978. A study of malaria cases in the area of R.H.T.C. Harsola and Health Centre Manpur of Indore district. *Indian J. Preventive and Social Med.* 9(1):23-26.
- Perrin, L. H., Mackey, L. J. and Miescher, P. A. 1982. The hematology of malaria in man. *Seminars in Hematology* 19(2):70-82.
- Playfair, J. H. L. and de Souza, J. B. 1982. Lymphocyte traffic and lymphocyte destruction in murine malaria. *Immunology* 46(2):125-133.
- Ripert, C. and Coauthors. 1982. Epidemiological and clinical features of malaria in two villages of the Lékié division (Cameroon). *Bull. Soc. de Path. Exot.* 75(1):26-38. In *Fr., Engl. Sum.*
- Samal, G. S. 1981. Clinical features of malaria in neonates. *Indian J. Pediatrics* 48(391):193-194.
- Singh, P. P. 1982. The return of malaria to India. *Nature (London)* 296(5857):486.
- Supramaniam, V. 1981. Malaria in Malaysian soldiers, 1980. *Med. J. Malaysia* 36(3):136-141.
- Virgilio, L. A., Reddy, S. and Edge, M. 1982. Congenital malaria in Delaware: a case report. *Delaware Med. J.* 54(3):159-160.
- Walker, E. and Brodie, C. 1982. *Plasmodium falciparum* malaria in Nigerians who live in Britain. *Brit. Med. J.* 284(6320):956-957.
- Webster, H. K., Haut, M. J., Martin, L. K. and Hildebrandt, P. K. 1982. Purine and pyrimidine nucleotide profiles during synchronous malaria infection (*Plasmodium knowlesi*) in the rhesus monkey. *Internat. J. for Parasitol.* 12(1):75-79.

Malaria—Cerebral

- Goodall, H. B. and Brobby, G. W. 1982. Stuttering, sickling, and cerebral malaria: a possible organic basis for stuttering. *Lancet* 8284:1279-1281.
- Rest, J. R. 1982. Cerebral malaria in inbred mice. I. A new model and its pathology. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(3):410-415.

Malaria Control and Eradication

- Hii, J. L. K. and Macdonald, M. 1979. The conditions of malaria transmission in Kuala Penyu district, Sabah and the residual effects of Sumithion, DDT and malathion. *Bul. Penelitan Kesehatan* 7(2):27-36.
- Khromov, A. S. and Izotov, A. I. 1982. Malaria vector control by ecologically safe methods. *Med. Parazit. i Parazit. Bolezni* 60(4):39-42. In *Rus., Engl. Sum.*
- Pletsch, D. J. 1982. Malaria and vector control in Guyana. *Mosquito News* 42(3):330-333.

Malaria—Immunology

- Cooke, R. and Coauthors. 1981. Malaria prophylaxis. *Med. J. Australia* 2(8):389.
- Golenser, J., Schmucl, Z. and Spira, D. T. 1981. Aspects of immunosuppression during *Plasmodium berghei* infection in rats. *Trop. and Geog. Med.* 33(4):347-354.
- Hollingdale, M. R., Zavala, F., Nussenzweig, R. S. and Nussenzweig, V. 1982. Antibodies to the protective antigen of *Plasmodium berghei* sporozoites prevent entry into cultured cells. *J. Immunol.* 128(4):1929-1930.
- Hommel, M., David, P. H., Guillotte, M. and Pereira da Silva, L. 1982. Protection against *Plasmodium chabaudi* malaria. I—Vaccination of mice with merozoites and Freund's adjuvants. *Ann. d'Immunol. (Paris)* 133C(1):57-67.
- Hunter, K. W., Smith, L. P., Strickland, G. T. and Blackburn, W. A. 1981. Hypergammaglobulinemia and erythrocyte autoantibody complicate enzyme immunoassay of antimalarial antibody. *J. Immunoassay* 2(2):99-108.
- Khusmith, S. and Druilhe, P. 1982. Specific arming of monocytes by cytophilic IgG pro-

- motes *Plasmodium falciparum* merozoite infection. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):423-424.
- Mahajan, R. C. and Coauthors. 1982. Malaria antibodies in voluntary blood donors. Indian J. Med. Res. 75(May):661-666.
- Mendis, K. N. and Targett, G. A. T. 1982. Vaccination to prevent transmission of *Plasmodium yoelii* malaria. Parasite Immunol. 4(2):117-127.
- Rosenberg, R., Koontz, L. C. and Carter, R. 1982. Infection of *Aedes aegypti* with zygotes of *Plasmodium gallinaceum* fertilized in vitro. J. Parasitol. 68(4):653-656.
- Salimonu, L. S., Williams, A. I. O. and Osunkoya, B. O. 1982. IgG subclass levels in malaria-infected Nigerians. Vox Sanguis 42(5):248-251.
- Shepherd, P. S. and Coauthors. 1982. Circulating immune complexes in *Plasmodium knowlesi* infected kra, and merozoite vaccinated rhesus monkeys. Clin. and Expt. Immunol. 42(2):315-320.
- Tandon, A., Saxena, R. P., Bhatia, B. and Saxena, K. C. 1982. The enzyme linked immunosorbent assay in the immunodiagnosis of human malaria. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):371-372.
- Taverne, J., Dockrell, H. M. and Playfair, J. H. L. 1982. Killing of the malarial parasite *Plasmodium yoelii* in vitro by cells of myeloid origin. Parasite Immunol. 4(2):77-91.
- Taylor, D. W. and Coauthors. 1982. *Plasmodium yoelii*: comparison of indirect immunofluorescence and radioimmunoassay for detecting monoclonal antibodies to malaria. Expt. Parasitol. 53(3):362-370.
- Taylor, D. W. and Siddiqui, W. A. 1982. Recent advances in malarial immunity. Ann. Rev. Med. 33:69-96.
- van Zon, A. A. J. C., Eling, W. M. C., Hermsen, C. C. R. and Koekkoek, A. A. G. M. 1982. Corticosterone regulation of the effector function of malarial immunity during pregnancy. Infect. and Immunity 36(2):484-491.
- Wasserman, M., Alarcón, C. and Mendoza, P. M. 1982. Effects of Ca^{++} depletion on the asexual cell cycle of *Plasmodium falciparum*. Amer. J. Trop. Med. and Hyg. 31(4):711-717.
- Watanabe, H., Sato, Y. Takai, A. and Otsuru, M. 1980. Studies on the immunosuppression in malaria infection—depression of antibody response in vitro in mice infected with rodent malaria. Jap. J. Parasitol. 29(6):463-472.
- World Health Organization. 1982. Development of malaria vaccines. TDR/IMMAL/SWG(5)/82.3, 16 pp.
- Malaria—Parasites*
- Adu, D. and Coauthors. 1981. The nephrotic syndrome in Ghana: clinical and pathological aspects. Quart. J. Med. 50:297-306.
- Barry, D. N. 1982. Metabolism of *Babesia* parasites in vitro. Amino acid production by *Babesia rodhaini* compared to *Plasmodium berghei*. Austral. J. Expt. Biol. and Med. Sci. 60(2):175-180.
- Brockelman, C. R. and Tan-ariya, P. 1982. *Plasmodium falciparum* in continuous culture: a new medium for the in vitro test for sulfadoxine sensitivity. Bul. WHO 60(3):423-426.
- Brown, K. N., McLaren, D. J., Hills, L. A. and Jarra, W. 1982. The binding of antibodies from *Plasmodium berghei*-infected rats to isoantigenic and parasite-specific antigenic sites on the surfaces of infected reticulocytes. Parasite Immunol. 4(1):21-31.
- Butcher, G. A. 1982. The behaviour of different strains of *Plasmodium falciparum* in suspension and static culture. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):407-409.
- Collins, W. E. and Coauthors. 1982. Observations on two strains of *Plasmodium falciparum* from Haiti in *Aotus* monkeys. J. Parasitol. 68(4):657-667.
- Danforth, H. D. and Coauthors. 1982. Retention of *Plasmodium berghei* sporozoites within perfused mouse livers. Acta Tropica 39(1):5-10.
- Dutta, G. P., Singh, P. P., Agarwal, A. and Agarwal, S. S. 1982. Serological studies in *Plasmodium knowlesi* infected convalescent rhesus monkeys. Indian J. Med. Res. 75(Feb.):212-219.
- Edirisinghe, J. S., Fern, E. B. and Targett, G. A. T. 1982. Resistance to superinfection with *Plasmodium berghei* in rats fed a protein-free diet. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):382-386.
- Finerty, J. F. and Kendrick, L. 1982. Survival of mice injected with *Plasmodium vinckei* or *Plasmodium yoelii* XL by the footpad route. Amer. J. Trop. Med. and Hyg. 31(5):923-926.
- Greiner, E. C., Black, D. J. and Iverson, W. O. 1981. *Plasmodium* in a bald eagle (*Haliaeetus leucocephalus*) in Florida. J. Wildlife Dis. 17(4):555-558.
- Heidrich, H. G. and Coauthors. 1982. Isolation of intracellular parasites (*Plasmodium falciparum*) from culture using free-flow electrophoresis: separation of the free parasites according to stages. J. Parasitol. 68(3):443-450.

- Hyde, J. E., Zolg, J. W. and Scaife, J. G. 1981. Isolation and characterisation of ribosomal RNA from the human malaria parasite *Plasmodium falciparum*. *Molecular and Biochem. Parasitol.* 4(5-6):283-290.
- Kan, S. K. P., Thomas, V., Swami, M. and Storey, J. 1982. A simple method of transporting *Plasmodium falciparum* infected blood for *in vitro* sensitivity testing and continuous cultivation. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(3):424-425.
- Knight, A. and Sinden, R. E. 1982. The purification of gametocytes of *Plasmodium falciparum* and *P. yoelii nigeriensis* by colloidal silica (Percoll) gradient centrifugation. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(4):503-509.
- Krotoski, W. A. and Collins, W. E. 1982. Failure to detect hypozoites in hepatic tissue containing exoerythrocytic schizonts of *Plasmodium knowlesi*. *Amer. J. Trop. Med. and Hyg.* 31(4):854-856.
- Lambiotte, M., Landau, T., Thierry, N. and Miltgen, F. 1981. Développement de schizontes dans des hépatocytes de Rat adulte en culture après infestation *in vitro* par des sporozoites de *Plasmodium yoelii*. *Compt. Rend. Acad. Sci. Paris Ser. III* 293(8):431-433.
- Leida, M. N., Mahoney, J. R. and Eaton, J. W. 1981. Intraerythrocytic plasmodial calcium metabolism. *Biochem. and Biophys. Res. Commun.* 103(2):402-406.
- Mengs, U. and Pelster, B. 1982. The course of *Plasmodium berghei* infection in mice latently infected with *Toxoplasma gondii*. *Experientia* 38(5):570-571.
- Meszoely, C. A. M. and Coauthors. 1982. *Plasmodium berghei*: architectural analysis by freeze-fracturing of the intraoocyst sporozoite's pellucular system. *Expt. Parasitol.* 53(2):219-241.
- Michel, J. C., Hurtrel, B., and Lagrange, P. H. 1982. Inflammation and resistance of mice against "*Plasmodium berghei*". *Ann. d'Immunol. (Paris)* 133C(1):97-101. *Engl. Sum.*
- Nair, C. R. and Coauthors. 1982. Mechanism of diethyl-dithiocarbamate induced elevation of parasitemia in *Plasmodium berghei* infection. *Indian J. Med. Res.* 75(Feb.):205-211.
- Newbold, C. I., Boyle, D. B., Smith, C. C. and Brown, K. N. 1982. Stage specific protein and nucleic acid synthesis during the asexual cycle of the rodent malaria *Plasmodium chabaudi*. *Molecular and Biochem. Parasitol.* 5(1):33-44.
- Ngwenya, B. Z. 1982. Enhanced resistance to *Plasmodium berghei* in mice previously infected with *Trichinella spiralis*. *Parasite Immunol.* 4(3):197-207.
- Pattanakitakul, S. and Yuthavong, Y. 1982. Heterogeneity in filterability of erythrocytes from malaria (*Plasmodium berghei*)-infected blood. *Experientia* 38(5):626-628.
- Perkins, M. 1982. Surface proteins of schizont-infected erythrocytes and merozoites of *Plasmodium falciparum*. *Molecular and Biochem. Parasitol.* 5(1):55-64.
- Pirson, P. 1982. Culture of the exoerythrocytic liver stages of *Plasmodium berghei* sporozoites in rat hepatocytes. *Trans. Roy. Soc. Trop. Med. and Hyg.* 76(3):422.
- Raventos-Suarez, C., Pollack, S. and Nagel, R. L. 1982. *Plasmodium falciparum*: inhibition of *in vitro* growth by desferrioxamine. *Amer. J. Trop. Med. and Hyg.* 31(5):919-922.
- Reyes, P. and Coauthors. 1982. Enzymes of purine and pyrimidine metabolism from the human malaria parasite, *Plasmodium falciparum*. *Molecular and Biochem. Parasitol.* 5(5):275-290.
- Rhodes-Feuillette, A. and Coauthors. 1981. Présence Interféron circulant dans le sérum de malades infectés par *Plasmodium falciparum*. *Compt. Rend. Acad. Sci. Paris Ser. III* 293(11):635-637.
- Rüsmann, L., Jung, A. and Heidrich, H. G. 1982. The use of Percoll gradients, elutriator rotor elution, and mithramycin staining for the isolation and identification of intraerythrocytic stages of *Plasmodium berghei*. *Z. f. Parasitenkunde* 66(3):273-280.
- Rzeczycyk, C. M. 1982. Probable macrophage origin of the lipopolysaccharide-induced cytostatic effect on intro-erythrocytic malarial parasites (*Plasmodium vinckei*). *Immunology* 46(2):261-270.
- Sander, B. J., Lowery, M. S. and Kruckeberg, W. C. 1981. Glycolytic metabolism in malaria infected red cells. *Prog. in Clin. and Biol. Res.* 55:469-490.
- Sander, B. J., Osborn, R. L., Lowery, M. S. and Kruckeberg, W. C. 1982. *Plasmodium knowlesi*: glycolytic intermediate levels and enzyme activities of infected rhesus monkey erythrocytes. *Expt. Parasitol.* 53(3):355-361.
- Simpson, G. L., Born, J. L. and Cain, G. 1981. Growth of human malaria parasites in biotinylated erythrocytes. *Molecular and Biochem. Parasitol.* 4(5-6):243-253.
- Sinden, R. E. and Smith, J. E. 1982. The role of the Kupffer cell in the infection of rodents by sporozoites of *Plasmodium*: uptake of sporozoites by perfused liver and the estab-

- ishment of infection *in vivo*. *Acta Tropica* 39(1):11-27.
- Tanabe, K., Matsumoto, T., Furusawa, M. and Takada, S. 1982. An increase in Sendai virus-induced cell fusion of erythrocytes infected with *Plasmodium chabaudi*. *Experientia* 38(3):342-344.
- Taylor, D. W. and Coauthors. 1982. The rodent malaria parasite *Plasmodium yoelii* lacks both types 1 and 2 T-independent antigens. *J. Immunol.* 128(4):1854-1859.
- Telford, S. R., Jr. 1982. Interpopulation variation of a saurian malaria, *Plasmodium sasai* Telford and Ball, 1969, in three host species distributed within a range of 24° north latitude. *Internat. J. for Parasitol.* 12(1):17-22.
- Turner, D. P. and Gregson, N. A. 1982. The cell surface of *Plasmodium gallinaceum* sporozoites: microelectrophoretic and lectin-binding characteristics. *Parasitology* 84(2):227-238.
- Vander Jagt, D. L., Hunsaker, L. A. and Heidrich, J. E. 1981. Partial purification and characterization of lactate dehydrogenase from *Plasmodium falciparum*. *Molecular and Biochem. Parasitol.* 4(5-6):255-264.
- Veza, A. C. and Trager, W. 1982. Comparative analyses of the ribosomal RNA from four isolates of *Plasmodium falciparum*. *Amer. J. Trop. Med. and Hyg.* 31(4):718-722.
- Vial, H. J., Thuet, M. J., Broussal, J. L. and Philippot, J. R. 1982. Phospholipid biosynthesis by *Plasmodium knowlesi*-infected erythrocytes: the incorporation of phospholipid precursors and the identification of previously undetected metabolic pathways. *J. Parasitol.* 68(3):379-391.
- Vial, H. J., Thuet, M. J. and Philippot, J. R. 1982. Inhibition of the *in vitro* growth of *Plasmodium falciparum* by D vitamins and vitamin D-3 derivatives. *Molecular and Biochem. Parasitol.* 5(3):189-198.
- Waki, S. and Coauthors. 1982 *Plasmodium berghei*: isolation and maintenance of an irradiation attenuated strain in the nude mouse. *Expt. Parasitol.* 53(3):335-340.
- Wallach, M. and Kilejian, A. 1982. The importance of tRNA for the *in vitro* cell-free translation of messenger RNA isolated from the malaria parasite *Plasmodium lophurae*. *Molecular and Biochem. Parasitol.* 5(4):245-261.
- Wilson, R. J. 1982. How the malarial parasite enters the red blood cell. *Nature (London)* 295(5848):368-369.
- Malaria—Therapeutics and Antimalarials*
- Adejwon, C. A., Dada, O. A., Adadevoh, B. K. and Olatunbosun, D. A. 1982. Effect of chloroquine administration on the *in vitro* conjugation of oestradiol-17 beta by rat liver. *Toxicology Lett.* 11:61-66.
- Adelusi, S. A. and Salako, L. A. 1982. Protein binding of chloroquine in the presence of aspirin. *Brit. J. Clin. Pharmacol.* 13(3):451-452.
- Alván, G., Ekman, L. and Lindström, B. 1982. Determination of chloroquine and its desethyl metabolite in plasma, red blood cells and urine by liquid chromatography. *J. Chromatog.* 229(1):241-247.
- Brockelman, C. R. and Tan-ariya, P. 1982. Efficacy of Fansidar® against *Plasmodium falciparum* in continuous culture. *Amer. J. Trop. Med. and Hyg.* 31(5):913-918.
- Brown, N. D., Poon, B. T. and Chulay, J. D. 1982. Determination of chloroquine and its de-ethylated metabolites in human plasma by ion-pair high-performance liquid chromatography. *J. Chromatog.* 229(1):248-254.
- Bruce-Chwatt, L. J. 1982. Qinghaosu: a new antimalarial. *Brit. Med. J.* 284(6318):767-768.
- Chen, C. and Coauthors. 1981. Synthesis of organic salts of primaquine and experimental observations on their radical cure activity against malaria. Yao Hsueh Hsueh Pao 16(12):897-901. In Chin., Engl. Sum.
- Colbourne, M. J. 1981. Malaria prophylaxis with chloroquine. *Lancet* 8259:1346.
- Darnaud, B. and Coauthors. 1981. Ocular electrophysiology and synthetic antimalarial agents. *Ann. de Méd. Interne (Paris)* 132(6):362-366.
- Deng, R. and Coauthors. 1981. Studies on antimalarial agents—alpha-(alkylamino-methyl) - halogenated - 4 - fluorenemethanols. Yao Hsueh Hsueh Pao 16(12):920-924.
- Edwards, J. M., Moulds, J. J. and Judd, W. J. 1982. Chloroquine dissociation of antigen-antibody complexes. A new technique for typing red blood cells with a positive direct antiglobulin test. *Transfusion* 22(1):59-61.
- Essien, E. E. and Afamefuna, G. C. 1982. Chloroquine and its metabolites in human cord blood, neonatal blood, and urine after maternal medication. *Clin. Chem.* 28(5):1148-1152.
- Ferraroni, J. J. and Speer, C. A. 1982. Fansidar prophylaxis, therapy, and immune re-

- sponses in rodent malaria (*Plasmodium berghei*). J. Parasitol. 68(4):609-615.
- Fitch, C. D. and Coauthors. 1982. Lysis of *Plasmodium falciparum* by ferriprotoporphyrin IX and a chloroquine-ferriprotoporphyrin IX complex. Antimicrob. Agents and Chemother. 21(5):819-822.
- Good, M. I. and Shader, R. I. 1982. Lethality and behavioral side effects of chloroquine. J. Clin. Psychopharmacology 2(1):40-47.
- Gu, H. M. and Coauthors. 1981. Antimalarial effect and toxicity of methyl-dihydro-artemisinin in animals. Chung Kuo Yao Li Hsueh Pao 2(2):138-144. In Chin., Engl. Sum.
- Hansford, C. F. and Hoyland, J. 1982. An evaluation of co-trimoxazole in the treatment of *Plasmodium falciparum* malaria. South Afr. Med. J. 61(14):512-514.
- Hassan, S. M., Metwally, M. E. S. and Ouf, A. M. A. 1982. A sensitive colour reaction for the determination of primaquine in pharmaceutical preparations. Analytical Letters 15(B2):213-219.
- Hegazi, M. M., Abo-Shady, A. F. and Abdel-Magied, S. 1981. Treatment of rodent malaria with levamisole. J. Egypt. Soc. Parasitol. 11(1):195-199.
- Ivanina, T. A. and Lebedeva, M. N. 1982. Electron microscopic and electrophysiological study of the effect of antimalarial drugs, dabequin and chloroquine, on the rat retina. Med. Parazit. i Parazit. Bolezni 60(4):21-26. in Rus., Engl. Sum.
- Kapila, M., Lee, S. H., Gray, W. and Robson, A. 1982. Fatal falciparum malaria and the availability of parenteral antimalarial drugs in hospitals. Brit. Med. J. 284(6328):1547-1548.
- Markus, M. B. 1982. Dexamethasone in cerebral malaria. South Afr. Med. J. 61(16):573.
- Martin, C. and Coauthors. 1982. Oedème pulmonaire au cours d'un accès palustre. Evolution favorable sous ventilation artificielle avec pression positive de fin d'expiration. Nouv. Presse Med. 11 (21):1638.
- Masaba, S. C. and Spencer, H. C. 1982. Sensitivity of *Plasmodium falciparum* to chloroquine in Busia District, Kenya. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):314-316.
- Miller, S. and Flynn, A. D. 1982. The effect of cycloheximide on the synthesis of ribonucleic acid in the mosquito *Anopheles albimanus* Wiedemann. Insect Biochem. 12(1):63-68. [Weidemann in original.]
- Muth, C. W. and Coauthors. 1981. Syntheses of 9-acridine- and 2-phenanthridine-methanols as potential animalarials. J. Medicinal Chem. 24(8):1016-1018.
- Myint-Lwin, Min-Zaw and Rooney, W. 1982. Comparative study of the micro *in vitro* and the *in vivo* tests of the response of *Plasmodium falciparum* to chloroquine in Burma. WHO/MAL/82.982., 9 pp.
- Nguyen-Dinh, P., Spencer, H. C., Chemangey-Masaba, S. and Churchill, F. C. 1982. Susceptibility of *Plasmodium falciparum* to pyrimethamine and sulfadoxine/pyrimethamine in Kisumu, Kenya. Lancet 8276:823-825.
- Ponnampalem, J. T. 1981. Haemoglobinuria after a single dose treatment with dapsone and pyrimethamine for falciparum malaria in a patient with glucose-6-phosphate dehydrogenase deficiency. Trop. and Geog. Med. 33(4):401-402.
- Posner, B. I., Patel, B. A., Khan, M. N. and Bergeron, J. J. M. 1982. Effect of chloroquine on the internalization of ¹²⁵I-insulin into subcellular fractions of rat liver. J. Biol. Chem. 257(10):5789-5799.
- Schwartz, D. E. and Weidekamm, E. 1982. Pharmacokinetics of mefloquine, sulfadoxine and pyrimethamine combination in animals and man. WHO/MAL/82.980, 6 pp.
- Spencer, H. C., Masaba, C. and Kiaraho, D. 1982. Sensitivity of *Plasmodium falciparum* isolates to chloroquine in Kisumu and Malindi, Kenya. Amer. J. Trop. Med. and Hyg. 31(5):902-906.
- Stace, J. D. and Pariwa, S. 1981. Reduction in malaria parasite rate in young children by distribution of prophylactic amodiaquine through voluntary village workers. Papua New Guinea Med. J. 24(4):254-260.
- Sweeney, T. R. 1982. Efficacy of mefloquine against malaria parasites in animal models. WHO/MAL/82.981, 12 pp.
- Thommen-Scott, K. 1981. Antimalarial activity of cyclosporin A. Agents and Actions 11(6-7):770-773.
- Tixier-Vidal, A., Moreau, M. F., Picart, R. and Gourdji, D. 1982. Effect of chloroquine on thyroliberin interaction with clonal rat prolactin cells. Cytochemical correlates. Neuroendocrinology 34:180-190.
- Trout, J. J., Stauber, W. T. and Schottelius, B. A. 1981. Increased autophagy in chloroquine-treated tonic and phasic muscles: an alternative view. Tissue and Cell 13(2):393-401.
- van Weelden, H., Bolling, H. H., Baart de la Faille, H. and van der Leun, J. C. 1982.

- Photosensitivity caused by chloroquine. Arch. Dermatol. 118(5):290.
- Warhurst, D. C. 1981. Cinchona alkaloids and malaria. Lancet 8259:1346.
- Yayon, A. and Ginsburg, H. 1981. The transport of chloroquine across human erythrocyte membranes is mediated by a simple symmetric carrier. Biochimica et Biophysica Acta 686(2):197-203.
- Ying, L. and Coauthors. 1979. Synthesis of some derivatives of artemisinin. Kexue Tongbac 24:667-669. In Chin., Engl. Sum.

Malaria—Antimalarials—Resistance

- Darlow, B. and Vrbova, H. 1981. Chloroquine-resistant *Plasmodium falciparum* malaria in Madang children. Papua New Guinea Med. J. 24(2):96-98.
- Gu, H. M. and Coauthors. 1980. Antimalarial activities of 25 derivatives of artemisinin against chloroquine-resistant *Plasmodium berghei*. Chung Kuo Yao Li Hsueh Pao 1(1):48-50. In Chin., Engl. Sum.
- Herzog, C. and Coauthors. 1982. Pyrimethamine/dapsone resistant falciparum malaria imported from Kenya. Lancet 8281:1119-1120.
- Johnson, D. E., Roendej, P. and Williams, R. G. 1982. Falciparum malaria acquired in the area of the Thai-Khmer border resistant to treatment with Fansidar®. Amer. J. Trop. Med. and Hyg. 31(5):907-912.
- Lelijveld, J. 1982. Problems with pyrimethamine/sulfadoxine malaria prophylaxis. Lancet 8277:915.
- Mafart, Y., Pieron, R. and Melchier, J. C. 1981. A new case of *Plasmodium falciparum* malaria resistance to chloroquine in Africa (Rwanda). Méd. Trop. (Marseille) 41(6):677-680. In Fr., Engl. Sum.
- Smalley, M. E. and Brown, J. 1982. *In vitro* demonstration of pyrimethamine resistance of "wild" *Plasmodium falciparum* in The Gambia. Trans. Roy. Soc. Trop. Med. and Hyg. 76(3):324-328.
- Stahel, E., Degremont, A. and Lagler, U. 1982. Pyrimethamine/sulfadoxine resistant falciparum malaria acquired at Dar Es Salaam, Tanzania. Lancet 8281:1118-1119.
- Timmermanns, P. M., Hess, U. and Jones, M. E. 1982. Pyrimethamine/sulfadoxine resistant falciparum malaria in East Africa. Lancet 8282:1181.

Malaria—Transfusion

- Brasseur, P. and Bonneau, J. C. 1981. Le

- paludisme transfusionnel: risque, prévention et coût (expérience d'une année). Revue Française de Transfusion et Immunohématologie 24(6):597-608. Engl. Sum.
- Fialon, P. and Coauthors. 1982. Three cases of malaria induced by blood transfusion. Bul. Soc. de Path. Exot. 75(1):39-43. In Fr., Engl. Sum.

Malaria—Vectors

- World Health Organization. 1982. Manual on environmental management for mosquito control with special emphasis on malaria vectors. WHO Offset Pub. No. 66, 283 pp.

LIGHT AND OTHER TRAP STUDIES

- Port, G. R. and Boreham, P. F. L. 1982. The effect of bed nets on feeding by *Anopheles gambiae* Giles (Diptera: Culicidae). Bul. Ent. Res. 72(3):483-488. [Use of traps included.]
- Soria, S. de J. and Santos, G. V. dos. 1980. The occurrence of mosquitoes and midges in cacao-growing areas of Bahia, Brazil: observations on trapping methods and the height of flights. Revista Theobroma 10(4):225-234.

LITERATURE REFERENCES AND REVIEWS

- Baranova, A. M. 1982. Epidemiological surveillance of malaria in foreign countries (a review of literature). Med. Parazit. i Parazit. Bolezni 60(4):53-56. In Rus.
- Houpeau, J. L. and Mallardeau, J. 1981. Bulletin Analytique d'Entomologie Médicale et Vétérinaire 28(10-part 1), 12(parts 1 and 2). Each section has 30-32 pp.
- Houpeau, J. L. and Mallardeau, J. 1982. Bulletin Analytique d'Entomologie Médicale et Vétérinaire 29(1, 2, 3, 4). Each with 31 or 32 pp.
- Manning, D. L., Evenhuis, N. L. and Steffan, W. A. 1982. Annotated bibliography of *Toxorchynchites* (Diptera: Culicidae): Supplement I. J. Med. Ent. 19(4):429-486.
- Sollers-Riedel, H. 1982. Literature references to mosquitoes and mosquito-borne diseases. 1982—Part III Mosquito News 42(3):467-489.

BIOGRAPHY AND HISTORY

- Medical Parasitology and Parasitic Diseases. 1982. Tatyana Sergeevna Detinova (on the occasion of her 70th birthday). Med. Parazit. i Parazit. Bolezni 60(4):88-89. In Rus.

SUBJECTS NOT COVERED BY OTHER HEADINGS

Davidson, G., Curtis, C. F., White, G. B. and Rawlings, P. 1982. Mosquito war games. *Nature* (London) 296(5859):700.
 Schmidt, C. H. 1982. Presidential address—1982. *Mosquito News* 42(3):321-323.

BOOKLETS AND REPORTS

Degallier, N. 1982. Les arbovirus selvatiques en Guyane Française et leur vecteurs. Doctoral thesis, 167 pp., plus annex. Univ. Pierre et Marie Curie, Paris.
 Gorgas Memorial Laboratory. 1981. Biennial report 1979-1980. 62 pp.
 Proceedings and papers of the forty-ninth annual conference of the California Mosquito and Vector Control Association, Inc., April 26-29, 1981. 125 pp.

BOOKS

Manson-Bahr, P. E. C. and Apted, F. I. C. 1982. *Manson's tropical diseases*, 18th edition. 843 pp., London. Ballière Tindall.

Rosicky, B. and Malkova, D. (Editors). 1980. *Tahyna virus natural focus in Southern Moravia*. 107 pp. Prague Pub. House Academia Prague.
 Sollers-Riedel, H. 1980. The 1979 international mosquito and disease situation. *Proc. N. J. Mosquito Cont. Assoc.* 67(Suppl.), 50 pp. Published 1982.
 Yakutieli, P. 1980. Eradication of infectious diseases. A critical study. *In Contrib. to Epidemiol. and Biostatistics.* (edited by Klingberg, M. A.). 164 pp.

IN APPRECIATION

Many thanks to all who send me reprints for inclusion in the Bibliography Section. Especially welcome are those in difficult to obtain journals. For the sake of the thousands who will read your papers, please be sure to include the issue and volume number. Otherwise, librarians as well as many others, have to waste time locating your article. Some periodicals have no issue number, but sufficient information is then needed to quickly identify them. H. S-R.

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION						
1. TITLE OF PUBLICATION						
2. ISSUE INFORMATION						
3. ISSUES FOR THIS YEAR						
4. ANNUAL SUBSCRIPTION PRICES						
5. SALES TERRITORIES AND CIRCULATION DATA						
6. SALES TERRITORIES AND CIRCULATION DATA						
7. SALES TERRITORIES AND CIRCULATION DATA						
8. SALES TERRITORIES AND CIRCULATION DATA						
9. SALES TERRITORIES AND CIRCULATION DATA						
10. SALES TERRITORIES AND CIRCULATION DATA						
11. SALES TERRITORIES AND CIRCULATION DATA						
12. SALES TERRITORIES AND CIRCULATION DATA						
13. SALES TERRITORIES AND CIRCULATION DATA						
14. SALES TERRITORIES AND CIRCULATION DATA						
15. SALES TERRITORIES AND CIRCULATION DATA						
16. SALES TERRITORIES AND CIRCULATION DATA						
17. SALES TERRITORIES AND CIRCULATION DATA						
18. SALES TERRITORIES AND CIRCULATION DATA						
19. SALES TERRITORIES AND CIRCULATION DATA						
20. SALES TERRITORIES AND CIRCULATION DATA						
21. SALES TERRITORIES AND CIRCULATION DATA						
22. SALES TERRITORIES AND CIRCULATION DATA						
23. SALES TERRITORIES AND CIRCULATION DATA						
24. SALES TERRITORIES AND CIRCULATION DATA						
25. SALES TERRITORIES AND CIRCULATION DATA						
26. SALES TERRITORIES AND CIRCULATION DATA						
27. SALES TERRITORIES AND CIRCULATION DATA						
28. SALES TERRITORIES AND CIRCULATION DATA						
29. SALES TERRITORIES AND CIRCULATION DATA						
30. SALES TERRITORIES AND CIRCULATION DATA						
31. SALES TERRITORIES AND CIRCULATION DATA						
32. SALES TERRITORIES AND CIRCULATION DATA						
33. SALES TERRITORIES AND CIRCULATION DATA						
34. SALES TERRITORIES AND CIRCULATION DATA						
35. SALES TERRITORIES AND CIRCULATION DATA						
36. SALES TERRITORIES AND CIRCULATION DATA						
37. SALES TERRITORIES AND CIRCULATION DATA						
38. SALES TERRITORIES AND CIRCULATION DATA						
39. SALES TERRITORIES AND CIRCULATION DATA						
40. SALES TERRITORIES AND CIRCULATION DATA						
41. SALES TERRITORIES AND CIRCULATION DATA						
42. SALES TERRITORIES AND CIRCULATION DATA						
43. SALES TERRITORIES AND CIRCULATION DATA						
44. SALES TERRITORIES AND CIRCULATION DATA						
45. SALES TERRITORIES AND CIRCULATION DATA						
46. SALES TERRITORIES AND CIRCULATION DATA						
47. SALES TERRITORIES AND CIRCULATION DATA						
48. SALES TERRITORIES AND CIRCULATION DATA						
49. SALES TERRITORIES AND CIRCULATION DATA						
50. SALES TERRITORIES AND CIRCULATION DATA						
51. SALES TERRITORIES AND CIRCULATION DATA						
52. SALES TERRITORIES AND CIRCULATION DATA						
53. SALES TERRITORIES AND CIRCULATION DATA						
54. SALES TERRITORIES AND CIRCULATION DATA						
55. SALES TERRITORIES AND CIRCULATION DATA						
56. SALES TERRITORIES AND CIRCULATION DATA						
57. SALES TERRITORIES AND CIRCULATION DATA						
58. SALES TERRITORIES AND CIRCULATION DATA						
59. SALES TERRITORIES AND CIRCULATION DATA						
60. SALES TERRITORIES AND CIRCULATION DATA						
61. SALES TERRITORIES AND CIRCULATION DATA						
62. SALES TERRITORIES AND CIRCULATION DATA						
63. SALES TERRITORIES AND CIRCULATION DATA						
64. SALES TERRITORIES AND CIRCULATION DATA						
65. SALES TERRITORIES AND CIRCULATION DATA						
66. SALES TERRITORIES AND CIRCULATION DATA						
67. SALES TERRITORIES AND CIRCULATION DATA						
68. SALES TERRITORIES AND CIRCULATION DATA						
69. SALES TERRITORIES AND CIRCULATION DATA						
70. SALES TERRITORIES AND CIRCULATION DATA						
71. SALES TERRITORIES AND CIRCULATION DATA						
72. SALES TERRITORIES AND CIRCULATION DATA						
73. SALES TERRITORIES AND CIRCULATION DATA						
74. SALES TERRITORIES AND CIRCULATION DATA						
75. SALES TERRITORIES AND CIRCULATION DATA						
76. SALES TERRITORIES AND CIRCULATION DATA						
77. SALES TERRITORIES AND CIRCULATION DATA						
78. SALES TERRITORIES AND CIRCULATION DATA						
79. SALES TERRITORIES AND CIRCULATION DATA						
80. SALES TERRITORIES AND CIRCULATION DATA						
81. SALES TERRITORIES AND CIRCULATION DATA						
82. SALES TERRITORIES AND CIRCULATION DATA						
83. SALES TERRITORIES AND CIRCULATION DATA						
84. SALES TERRITORIES AND CIRCULATION DATA						
85. SALES TERRITORIES AND CIRCULATION DATA						
86. SALES TERRITORIES AND CIRCULATION DATA						
87. SALES TERRITORIES AND CIRCULATION DATA						
88. SALES TERRITORIES AND CIRCULATION DATA						
89. SALES TERRITORIES AND CIRCULATION DATA						
90. SALES TERRITORIES AND CIRCULATION DATA						
91. SALES TERRITORIES AND CIRCULATION DATA						
92. SALES TERRITORIES AND CIRCULATION DATA						
93. SALES TERRITORIES AND CIRCULATION DATA						
94. SALES TERRITORIES AND CIRCULATION DATA						
95. SALES TERRITORIES AND CIRCULATION DATA						
96. SALES TERRITORIES AND CIRCULATION DATA						
97. SALES TERRITORIES AND CIRCULATION DATA						
98. SALES TERRITORIES AND CIRCULATION DATA						
99. SALES TERRITORIES AND CIRCULATION DATA						
100. SALES TERRITORIES AND CIRCULATION DATA						