

LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

1983—Part III

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ADULTICIDES, LARVICIDES AND GROWTH REGULATORS

- Anderson, L. M., Nelson, J. H., Thies, C. and Meisch, M. V. 1983. Evaluation of a controlled-release silicate formulation of temephos against *Aedes aegypti* larvae in the laboratory and *Psorophora columbae* larvae (Diptera: Culicidae) in rice field plots. *J. Med. Ent.* 20(3):325-329.
- Axtell, R. C. 1983. Mosquito control challenges and AMCA. *Mosquito News* 43(2):122-125.
- Back, C., Leblanc, A. and Aubin, A. 1983. Effets sur la derive des insectes aquatiques d'un traitement au temephos contre les larves de moustiques dans le Quebec subarctique. *Canad. Ent.* 115(6):703-712. In Fr., Engl. Sum.
- Balaraman, K., Balasubramanian, M. and Jambulingam, P. 1983. Field trial of *Bacillus thuringiensis* H-14 (VCRC B-17) against *Culex* and *Anopheles* larvae. *Indian J. Med. Res.* 77(Jan):38-43.
- Bohmalk, G. T. 1983. The use of *Bacillus thuringiensis israelensis* in mosquito control. *Proc. Utah Mosquito Abat. Assoc.* 35:16.
- Boike, A. H., Jr., Rathburn, C. B., Jr., Sizemore, L. A. and Peters, M. W. 1982. Results of the Florida program for monitoring mosquito susceptibility to temephos, 1980-82. *J. Fla. Anti-Mosquito Assoc.* 53(2):84-92.
- Dremova, V. P. and Coauthors. 1982. Preparation and study of composite insecticido-repellent aerosols. *J. Hyg. Epidemiol. Microbiol. and Immunol.* 26(2):117-124. [*Aedes* included.]
- Fleming, G. A. and Coauthors. 1983. A village-scale trial of bendiocarb (OMS-1394) for control of the malaria vector, *Anopheles aconitus* in Central Java, Indonesia. *WHO/VBC/83.875*, 13 pp.
- Geery, P. R., Holub, R. E. and Keen, R. R. 1983. Statistical evaluation of ground applied ULV malathion on natural populations of *Aedes vexans* and *Culex* species. *Mosquito News* 43(2):206-208.
- Helson, B. V. and Surgeoner, G. A. 1983. Effect of temperature and stage of development on susceptibility of *Aedes vexans* and *Aedes stimulans* (Diptera: Culicidae) larvae to temephos. *Canad. Ent.* 115(6):623-628.
- Helson, B. V. and Surgeoner, G. A. 1983. Permethrin as a residual lawn spray for adult mosquito control. *Mosquito News* 43(2):164-169.
- Hudson, J. E. 1981. Studies on flight activity and control of mosquitoes in the Edmonton area, 1971-73. *Quaestiones Ent.* 17(3-4):179-188.
- Hwang, Y. S., Mulla, M. S., Pope, M. M. and Rodriguez, C. 1982. Insecticidal activity of N,N-diethyl-, N,N-dipropyl-, N,N-di-isopropyl-, and N,N-di-isobutylalkanamides against mosquito larvae. *Pesticide Sci.* 13(5):517-522.
- Kalyanasundaram, M. and Babu, C. J. 1982. Biologically active plant extracts as mosquito larvicides. *Indian J. Med. Res.* 76 (Suppl.)(Dec.):102-106.
- Levy, R. and Coauthors. 1982. Additional studies on the use of the monomolecular surface film Arosurf® 66-E2 for operational control of mosquito larvae and pupae. *J. Fla. Anti-Mosquito Assoc.* 53(2):100-106.
- Mackenzie, D. L., Braun, H. E. and Frank, R. 1983. Municipal larvicide programs with temephos to control early and mid-season mosquitoes in Ontario, 1974-80. *Mosquito News* 43(2):187-194.
- Martine, J. 1982. Demoustication et ecologie. *Med. Trop. (Marseille)* 42(5):483-490.
- Pospisil, J. and Gonzalez Broche, R. 1981. Effects of tannin on the larvae of the mosquito *Culex quinquefasciatus* Say (Diptera: Culicidae). *Informe Cientifico-Tecnico, Inst. Zool., Acad. de Ciencias de Cuba No. 159*, 6 pp. Engl. Sum.
- Rajvanshi, A. C., Verma, K. V. S., Joshi, G. C. and Wattal, B. L. 1982. Synergistic effect of piperonyl butoxide on the efficacy of synthetic pyrethroids as mosquito larvicides. *J. Commun. Dis.* 14(4):286-293.
- Rathburn, C. B., Jr. Boike, A. H., Jr., Sizemore, L. A. and Peters, M. W. 1982. Laboratory tests of mosquito adulticides. *J. Fla. Anti-Mosquito Assoc.* 53(2):92-96.
- Rettich, F. 1982. Insecticide aerosols for residual treatment of walls against mosquitoes. *Cesk. Epidemiol. Mikrobiol. Imunol.* 31(5):305-309. In Cesk., Engl. Sum.
- Roberts, R. H. 1983. Evaluation of cypermethrin as an ULV cold aerosol against caged mosquitoes. *Mosquito News* 43(2):156-158.
- Sandoski, C. A., Kottkamp, W. B., Yearian, W. C. and Meisch, M. V. 1983. Efficacy of resmethrin alone and in combination with piperonyl butoxide against native riceland *Anopheles quadrimaculatus* (Diptera: Culicidae). *J. Econ. Ent.* 76(3):646-648.
- Vankova, J. 1981. Housefly susceptibility to *Bacillus thuringiensis* var. *israelensis* and a comparison with the activity of other insecticidal bacterial preparations. *Acta Ent. Bohemoslovaca* 78(6):358-362.
- Wagstaff, K. H. 1983. Field observations of Dursban 2% granules in Salt Lake County, Utah. *Proc. Utah Mosquito Abat. Assoc.* 35:17.
- Wie, S. I., Sylvester, A. P., Wing, K. D. and Hammock, B. D. 1982. Synthesis of haptens and potential radioligands and development of antibodies to insect growth regulators diflubenzuron and BAY SIR 8514. *J. Agr. and Food Chem.* 30(5):943-948.

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For additional references on *Bacillus thuringiensis* serotype H-14 see following section.

PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS

- Bailey, D. L., Adabbe, D., Focks, D. A. and Dame, D. A. 1983. Field releases with adults and pupae of *Toxorhynchites rutilus rutilus* (Diptera: Culicidae). *J. Med. Ent.* 20(3):308-312.
- Beier, J. C. and Harris, C. 1983. *Ascogregarina barretti* (Sporozoa: Diplocystidae) infections in natural populations of *Aedes triseriatus* (Diptera: Culicidae). *J. Parasitol.* 69(2):430-431.
- Charles, J. F. and de Barjac, H. 1983. Ultra-structural changes in the midgut of *Aedes aegypti* L. larvae by the ingestion of *Bacillus thuringiensis* var. *israelensis* crystals. *Ann. de Microbiol. (Inst. Pasteur)* A134(2):197-218. In Fr., Engl. Sum.
- Cooper, R. and Sweeney, A. W. 1982. The comparative activity of the Australian and United States strains of *Culicinomyces clavosporus* bioassayed in mosquito larvae of three different genera. *J. Invert. Path.* 40(3):383-387.
- Crandall, T. A. and Bowser, P. R. 1981. A microsporidian infection in a natural population of mosquitofish, *Gambusia affinis* (Baird and Girard). *J. Fish Dis.* 4(4):317-324.
- Curran, J. 1982. Morphological variation in *Romanomermis culicivorax* Ross and Smith, 1976 (Nematoda: Mermithidae). *Canad. J. Zool.* 60(5):1007-1011.
- Daoust, R. A. and Roberts, D. W. 1983. Studies on the prolonged storage of *Metarhizium anisopliae* conidia: effect of temperature and relative humidity on conidial viability and virulence against mosquitoes. *J. Invert. Path.* 41(2):143-150.
- Daoust, R. A. and Roberts, D. W. 1983. Studies on the prolonged storage of *Metarhizium anisopliae* conidia: effect of growth substrate on conidial survival and virulence against mosquitoes. *J. Invert. Path.* 41(2):161-170.
- Davidson, E. W. and Sweeney, A. W. 1983. Microbial control of vectors: a decade of progress. *J. Med. Ent.* 20(3):235-247.
- Dean, D. D. and Domnas, A. J. 1983. The extracellular proteolytic enzymes of the mosquito-parasitizing fungus *Lagenidium giganteum*. *Expt. Mycology* 7(1):31-39.
- El-Kadi, M. K. and Coauthors. 1983. Effects of the entomopathogen *Metarhizium anisopliae* on guinea pigs and mice. *Environmtl. Ent.* 12(1):37-42.
- Farghal, A. I. 1982. On the combined effect of a juvenile hormone analogue (Altosid) and a preparation of *Bacillus thuringiensis* (Bactimos) against the larvae of the mosquitoes *Culex pipiens molestus* Forsk. and *Theobaldia longiareolata* Macq. (Dipt. Culicidae). *Anz. Schadlingskunde* 55(11):164-167. In Ger., Engl. Sum.
- Ganesan, S., Kamdar, H., Jayaraman, K. and Szulmajster, J. 1983. Cloning and expression in *Escherichia coli* of a DNA fragment from *Bacillus sphaericus* coding for biocidal activity against mosquito larvae. *Molecular and General Genet.* 189(1):181-183.
- Greenstone, M. H. 1983. An enzyme-linked immunosorbent assay for the *Amblyospora* sp. of *Culex salinarius* (Microspora: Amblyosporidae). *J. Invert. Path.* 41(2):250-255.
- Kilochitsky, P. Ya. and Georgiyeva, E. K. 1982. A discovery of microsporidia in blood-sucking mosquitoes in Kareliya. *Vest. Zool. (Kiev)* 5:79. In Rus., Engl. Sum.
- Lacey, L. A. and Oldacre, S. L. 1983. The effect of temperature, larval age, and species of mosquito on the activity of an isolate of *Bacillus thuringiensis* var. *darmstadiensis* toxic for mosquito larvae. *Mosquito News* 43(2):176-180.
- Laird, M. 1982. Gregarine and microsporidian protozoa in *Aedes polynesiensis*, Tokelau Islands. Recent accidental importations? *Canad. J. Zool.* 60(8):1922-1929.
- Large, I. 1981. Study of the remanence of *Bacillus thuringiensis* var. *israelensis*. *Revue Generale de Botanique* 88(1040-1042):33-42. In Fr., Engl. Sum.
- Nam, E. A. and Dubitsky, A. M. 1981. Taxonomy of *Coelomomyces* fungi infecting *Culex* mosquitoes. *Izvest. Akad. Nauk Kazak SSR Ser. Biol.* 2:77-84. In Rus.
- Panicker, K. N. and Bai, M. G. 1983. Field release of *Toxorhynchites splendens* (Diptera: Culicidae) in controlling container breeding mosquitoes in a coastal village. *Indian J. Med. Res.* 77(Mar):339-341.
- Parsons, R. E. and Wilson, F. L. 1982. Preliminary study of predators associated with *Mansonia* larvae in Polk County, Florida. *J. Fla. Anti-Mosquito Assoc.* 53(2):97-99.
- Paulov, S. and Paulovová, J. 1983. Effects of acetone extract from aphids on developmental stages of mosquitoes and Amphibia. *Biologia* 38(2):89-93.
- Service, M. W. 1983. Biological control of mosquitoes—has it a future? *Mosquito News* 43(2):113-120. [See also p. 121 on the memorial lecturer.]
- Sharma, R. K. and Gupta, L. N. 1982. Role of photoperiod and temperature on biological control of *Culex fatigans* larvae by the mermithid nematode *Romanomermis culicivorax* Ross and Smith. *Z. Angew. Ent.* 93(2):187-190.
- Song, J. Z. 1983. Preliminary survey of a mermithid nematode pathogenic to mosquitoes in Bomi District, Tibet. *Chinese Med. J.* 96(2):138-140.
- Stiles, B., Dunn, P. E. and Paschke, J. D. 1983. Histopathology of nuclear polyhedrosis infection in *Aedes epactius* with observations in four additional mosquito species. *J. Invert. Path.* 41(2):191-202.
- Thornton, D. P., Brust, R. A. and Galloway, T. D. 1982. Effect of storage at low temperatures on development and survival of postparasitic juveniles of *Romanomermis culicivorax* (Nematoda: Mermithidae). *J. Nematology* 14(3):386-393.
- Toovey, M. K., Prakash, G., Goettel, M. S. and Pillai, J. S. 1982. *Elaphoidella taroi*: the intermediate copepod host in Fiji for the mosquito pathogenic fungus *Coelomomyces*. *J. Invert. Path.* 40(3):378-382.
- Tyrell, D. J. and Coauthors. 1981. Comparative biochemistry of entomocidal parasporal crystals of selected *Bacillus thuringiensis* strains. *J. Bacteriol.* 145(2):1052-1062.

Wajihullah. —, and Ansari, J. A. 1981. Larval development of *Setaria cervi* in the mosquito, *Aedes aegypti*. *Helminthologia* (Bratislava) 18(4):267-271.

Womersley, C. and Platzer, E. G. 1982. The effect of parasitism by the mermithid *Romanomermis culicivorax* on the dry weight and hemolymph soluble protein content of three species of mosquitoes. *J. Invert. Path.* 40(3):406-412.

World Health Organization. 1983. Data sheet on the biological control agent *Octomyonermis muspratti* (Obiamiwe and Macdonald, 1973) (syn. *Reesimermis muspratti* Obiamiwe and Macdonald, 1973). WHO/VBC/80.764 Add. 1, VBC/BCDS/80.07 Add. 1. 4 pp. [Feb. 1983.]

Yang, X. S. and Chen, D. H. 1983. A new parasite of mosquitoes, *Romanomermis jingdeensis*, sp. nov. (Nematoda: Mermithidae). *Acta Zootax. Sinica* 8(2):116-119. In Chin. and Engl.

WATER MANAGEMENT

Balling, S. S. and Resh, V. H. 1983. A method for determining pond inundation height for use in salt marsh mosquito control. *Mosquito News* 43(2):239-240.

Balling, S. S. and Resh, V. H. 1983. Mosquito control and salt marsh management: factors influencing the presence of *Aedes* larvae. *Mosquito News* 43(2):212-218.

MOSQUITO CONTROL AGENCY PROBLEMS

Greenfield, H. R. 1983. Thirty-two years of mosquito control. *Proc. Utah Mosquito Abat. Assoc.* 35:4-5.

Hamrin, C. E. 1983. Miners + woodcutters = *Aedes sierrensis*. *Proc. Utah Mosquito Abat. Assoc.* 35:8.

Mezger, E. C. 1983. Recent developments in mosquito control in California. *Proc. Utah Mosquito Abat. Assoc.* 35:6-7.

Mulhern, T. D. 1983. The entomologist and mosquito control. *Proc. Utah Mosquito Abat. Assoc.* 35:1-3.

Peterson, V. 1983. How boards of trustees can help the district manager. *Proc. Utah Mosquito Abat. Assoc.* 35:14.

Roberts, R. S. 1983. Report of the Utah Mosquito Control—Fish and Wildlife Management Coordinating Committee. *Proc. Utah Mosquito Abat. Assoc.* 35:19-20.

Stevens, R. 1983. Medflies, mosquitoes, and malathion. *Proc. Utah Mosquito Abat. Assoc.* 35:18.

ATTRACTANTS AND REPELLENTS

Nasci, R. S., Harris, C. W. and Porter, C. K. 1983. Failure of an insect electrocuting device to reduce mosquito biting. *Mosquito News* 43(2):180-184.

RESISTANCE AND SUSCEPTIBILITY

Kamimura, K. and Maruyama, Y. 1983. Appearance of highly resistant strain of *Culex tritaeniorhynchus* to organophosphorus insecticides. *Jap. J. Sanit. Zool.* 34(1):33-37. In Jap., Engl. Sum.

PESTICIDES AND CHEMICALS

Baker, J. C. 1983. Chlorinated hydrocarbon pesticide residues in the environment. *Proc. Utah Mosquito Abat. Assoc.* 35:15.

Banerjee, B. D., Pasha, S. T., Gulati, M. and Hussain, Q. Z. 1982. DDT and its metabolites in body fat and liver of albino mice—biochemical and histopathological studies. *J. Commun. Dis.* 14(4):274-280.

BEHAVIOR, BIOLOGY AND ECOLOGY

Andis, M. D., Meek, C. L. and Wright, V. L. 1983. Bionomics of Louisiana ricefield mosquito larvae I. A comparison of sampling techniques. *Mosquito News* 43(2):195-203.

Bertsch, M. L. and Norment, B. R. 1983. The host feeding patterns of *Culex quinquefasciatus* in Mississippi. *Mosquito News* 43(2):203-206.

Birley, M. H. 1983. A further note on the estimation of survival rate. *J. Med. Ent.* 20(3):343. [*Culex quinquefasciatus*.]

Bradshaw, W. E. 1983. Estimating biomass of mosquito populations. *Environmtl. Ent.* 12(3):779-781.

Chadee, D. D. 1983. Rock hole breeding *Haemagogus* mosquitoes on Monos Island, Trinidad, West Indies. *Mosquito News* 43(2):236-237.

Chang, M. S. and Jute, N. 1982. Distribution and density of *Aedes aegypti* (L.) and *Aedes albopictus* (Skuse) in Sarawak. *Med. J. Malaysia* 37(3):205-210.

Dickson, S. L. 1983. Swarming and mating in *Aedes niphadopsis* Dyar and Knab. *Proc. Utah Mosquito Abat. Assoc.* 35:9-12.

Durso, S. L. and Craig, G. B., Jr. 1980. Tree-hole productivity for *Aedes triseriatus* in northern Indiana, 1975, vs. 1979. *Proc. Indiana Acad. Sci.* 90:238-247.

Dziem, G. M. and Cupp, E. W. 1983. Laboratory bionomics of *Culex (Melanoconion) taeniopus*. *Mosquito News* 43(2):170-175.

Eischen, F. A. and Foster, W. A. 1983. Life span and fecundity of adult female *Aedes aegypti* (Diptera: Culicidae) fed aqueous extracts of pollen. *Ann. Ent. Soc. Amer.* 76(4):661-663.

Gass, R. F. and Coauthors. 1983. Dispersal and flight range studies on *Mansonia annulata*, *Ma. indiana*, and *Ma. uniformis* (Diptera: Culicidae) in southern Thailand. *J. Med. Ent.* 20(3):288-293.

Gillet, J. F. and Gilot, B. 1983. La cartographie des populations larvaires de *Culex pipiens* (s.l.) en zone urbaine: l'exemple de La Tronche, banlieue de Grenoble (Alpes Françaises du nord). WHO/VBC/83.876, 20 pp. Engl. Sum.

- Hudson, J. E. 1983. Seasonal succession and relative abundance of mosquitoes attacking cattle in central Alberta. *Mosquito News* 43(2):143-146.
- Kasap, M. 1981. Response of mosquitoes to mechanical stimuli. II. An observation on the response of the larvae and pupae of *Aedes aegypti*, *Anopheles stephensi* and *Culex pipiens* (Diptera: Culicidae) to taps at the edge of an experimental dish. *Communications de la Faculte des Sciences de l'Universite d'Ankara, Ser. C Zool.* 25(3):25-35.
- Kitching, R. L. and Callaghan, C. 1982. The fauna of water-filled tree holes in box forest in south-east Queensland. *Austral. Ent. Mag.* 8(5):61-70. [*Aedes* and *Tripteroides* included.]
- Kühlhorn, F. 1982. Investigations on the overwintering behavior of *Anopheles messeae messeae* Falleroni, 1926 (Dipt.: Culicidae) in the Upper Bavarian alpine foothills. *Z. Angew. Zool.* 69 (1):89-105. In Ger., Engl. Sum.
- Leiser, L. 1980. Distribution of *Aedes triseriatus* (Say) in an urban area: comparison of two survey methods. *Proc. Indiana Acad. Sci.* 90:248-253.
- Linley, J. R. and Simmons, K. R. 1981. Sperm motility and spermathecal filling in lower Diptera. *Internat. J. Invert. Reproduct.* 4(2):137-145. [*Aedes aegypti* included.]
- Madder, D. J., Surgeoner, G. A. and Nelson, B. V. 1983. Number of generations, egg production, and developmental time of *Culex pipiens* and *Culex restuans* (Diptera: Culicidae) in southern Ontario. *J. Med. Ent.* 20(3):275-287.
- Mosha, F. W. and Petrarca, V. 1983. Ecological studies on *Anopheles gambiae* complex sibling species on the Kenya coast. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(3):344-345.
- Nelson, M. J., Suarez, M. F., Archila, L. F. and Guzman, J. 1983. The distribution of *Aedes aegypti* (L.) at high elevations in Colombia. WHO/VBC/83.872, 11 pp.
- Nikolaeva, N. V. 1982. Autogeny in populations of bloodsucking mosquitoes from south Jamal (Culicidae). *Parazitologiya* 16(4):300-305. In Rus., Engl. Sum.
- Nishimura, M. 1982. How mosquitoes fly to man. *Res. on Population Ecol.* 24(1):58-69.
- Pappas, L. G. and Pappas, C. D. 1983. Laboratory studies on the significance of NaCl as an oviposition deterrent in *Culiseta inornata*. *Mosquito News* 43(2):153-155.
- Reisen, W. K. and Coauthors. 1983. Population ecology of *Culex tarsalis* (Diptera: Culicidae) in a foothill environment of Kern County, California: temporal changes in female relative abundance, reproductive status, and survivorship. *Ann. Ent. Soc. Amer.* 76(4):800-808.
- Reisen, W. K., Milby, M. M., Meyer, R. P. and Reeves, W. C. 1983. Population ecology of *Culex tarsalis* (Diptera: Culicidae) in a foothill environment in Kern County, California: temporal changes in male relative abundance and swarming behavior. *Ann. Ent. Soc. Amer.* 76(4):809-815.
- Sempala, S. D. K. 1981. Estimation of the mortality of the immature stages of *Aedes (Stegomyia) africanus* Theobald in a tropical forest in Uganda. *Insect Sci. Applications* 2(4):233-244.
- Sims, S. R. and Munstermann, L. E. 1983. Egg and larval diapause in two populations of *Aedes geniculatus* (Diptera: Culicidae). *J. Med. Ent.* 20(3):263-271.
- Strickman, D. 1983. Preliminary report of seasonal oviposition by *Culex quinquefasciatus* in San Antonio, Texas. *Mosquito News* 43(2):226-230.
- Subra, R. 1983. The regulation of preimaginal populations of *Aedes aegypti* L. (Diptera: Culicidae) on the Kenya coast. I. Preimaginal population dynamics and the role of human behaviour. *Ann. Trop. Med. and Parasitol.* 77(2):195-201.
- Suenaga, O., Liu, W., Miao, J. and Xu, W. 1982. Seasonal change in the oviposition activity of *Culex pipiens pallens* in Shanghai, China. *Trop. Med. (Nagasaki)* 24(4):229-234. Jap. Sum.
- Tadei, W. P. and Correia, J. M. 1982. Biologia de anofelinos amazonicos. IV. Observaciones sobre a actividad de picar de *Anopheles nuneztovari* Gabaldon (Diptera, Culicidae). *Acta Amazonica* 12(1):71-74. Engl. Sum.
- Trimble, R. M. and Lund, C. T. 1983. Intra- and interpopulation variation in the thermal characteristics of preadult development of two latitudinally diverse populations of *Toxorhynchites rutilus septentrionalis* (Diptera: Culicidae). *Canad. Ent.* 115(6):659-662.
- Turchenko, L. N. 1982. On bloodsucking mosquito attack activity in the eastern part of Azerbaijan. *Vest. Zool. (Kiev)* 65(4):66-69. In Rus.
- Washino, R. K. and Tempelis, C. H. 1983. Mosquito host bloodmeal identification: methodology and data analysis. *Ann. Rev. Ent.* 28:179-201.
- See also Encinas Grandes in Book Section.
- GENETICS AND GENETIC CONTROL
- Awahmukalah, D. S. T. and Brooks, M. A. 1983. Reproduction of an inbred strain of *Culex pipiens* prevented by loss of *Wolbachia pipiensis*. *J. Invert. Path.* 41(2):184-190.
- Bryan, J. H., Di Deco, M. A., Petrarca, V. and Coluzzi, M. 1982. Inversion polymorphism and incipient speciation in *Anopheles gambiae* s.str. in The Gambia, West Africa. *Genetica* 59(3):167-176.
- Hilwig, I. 1982. Manipulation with *Aedes albopictus* cells II. Changes in the karyotype after long-term in vitro cultivation, the effect of the serum concentration, and the influence of baculoviruses (*Autographa californica*). *Acta Biol. Acad. Sci. Hung.* 33(1):69-76.
- Kaiser, P. E. and Seawright, J. A. 1983. X-ray induced chromosomal aberrations in *Anopheles albimanus*. *Mosquito News* 43(2):219-222.
- Malcolm, C. A. and Wood, R. J. 1982. Location of a gene conferring resistance to knockdown by permethrin and bioresmethrin in adults of the BKPM3 strain of *Aedes aegypti*. *Genetica* 59(3):233-237.
- Ouda, N. A. and Wood, R. J. 1983. Inheritance of brown-eye and colourless-eye in the mosquito *Aedes aegypti*. *Ann. Trop. Med. and Parasitol.* 77(2):211-218.
- Rathor, H. R., Rashid, S. and Toqir, G. 1983. Genetic analysis of a new sex-linked mutant "Chestnut Eye" an allele of the white eye locus in the malaria vector *Anopheles stephensi*. *Mosquito News* 43(2):209-212.

- Rathor, H. R., Toqir, G. and Rashid, S. 1983. Inheritance of short palpi, a morphological mutant in the malaria vector mosquito *Anopheles stephensi*. *Mosquito News* 43(2):158-163.
- Sharma, G. P., Soni, K. G. and Chaudhry, S. 1982. Studies on the salivary gland chromosomes of an alpine species *Anopheles lindesayi* Giles (Culicidae, Diptera). *Cytobios* 35(137):29-35.
- Shuvalikov, B. V. 1982. Hereditary structure of the *Anopheles messeae* remote populations. *Vest. Zool. (Kiev)* 65(4):65-66. In Rus., Engl. Sum.
- Singh, S. P. and Coauthors. 1981. Control of mosquito *Culex pipiens fatigans* by releasing radiation sterile males—a field study. *J. Environmtl. Biol.* 2(3):9-18.
- Stegniy, V. N. 1983. Inversional polymorphism in *Anopheles messeae*. IV. Stationarity of frequency distribution of inversions in species area. *Genetika* 19(3):466-473. In Rus., Engl. Sum.
- Stegniy, V. N. 1983. Inversional polymorphism in *Anopheles messeae*. V. Interaction of diverse chromosomal inversions in the spatial area. *Genetika* 19(3):474-482. In Rus., Engl. Sum.
- Tabachnick, W. J. and Powell, J. R. 1983. Genetic analysis of *Culex pipiens* populations in the Central Valley of California. *Ann. Ent. Soc.* 76(4):715-720.
- Tadei, W. P., dos Santos, J. M. M. and Rabbanii, M. G. 1982. Biología de los anofelinos amazónicos. V. Polimorfismo cromosómico de *Anopheles darlingi* Root (Diptera, Culicidae). *Acta Amazonica* 12(2):353-369. Engl. Sum.
- Yong, H. S. and Coauthors. 1983. Multiple alleles and low variability of glycerol-3-phosphate dehydrogenase in *Aedes albopictus* (Diptera: Culicidae) from Peninsular Malaysia. *Compar. Biochem. and Physiol.* 75B(1):43-45.
- Yong, H. S. and Coauthors. 1982. Multiple isocitrate dehydrogenase alleles in *Toxorhynchites metallicus* (Diptera: Culicidae). *Malayan Nature J.* 35(4):263-266.
- ANATOMY, MORPHOLOGY AND PHYSIOLOGY**
- Bradley, T. J., Stuart, A. M. and Satir, P. 1982. The ultrastructure of the larval malpighian tubules of a saline-water mosquito. *Tissue and Cell* 14(4):759-773. [*Ae. taeniorhynchus*.]
- Carlson, R. W. 1983. Instar, stadium, and stage: definitions to fit usage. *Ann. Ent. Soc. Amer.* 76(3):319.
- Edwards, H. A. 1978. Structure and function of anal papillae in fourth instar larvae of *Aedes aegypti*—a fresh water mosquito. *Atti Soc. Pelorit., Sci. Fish. Mat. e Nat.* 14:357-359. [Fres in original.]
- Edwards, H. A. 1982. *Aedes aegypti*: energetics of osmoregulation. *J. Expt. Biol.* 101D:135-141.
- Edwards, H. A. 1982. Ion concentration and activity in the haemolymph of *Aedes aegypti* larvae. *J. Expt. Biol.* 101D:143-151.
- Fink, T. J. 1983. A further note on the use of the terms *instar*, *stadium*, and *stage*. *Ann. Ent. Soc. Amer.* 76(3):316-318.
- Hall, D. W. 1983. Mosquito hemocytes: a review. *Developmtl. and Comparat. Immunol.* 7(1):1-12.
- Hamilton, R. J. and Service, M. W. 1983. Value of cuticular and internal hydrocarbons for the identification of larvae of *Anopheles gambiae* Giles, *Anopheles arabiensis* Patton and *Anopheles melas* Theobald. *Ann. Trop. Med. and Parasitol.* 77(2):203-210.
- Hazelton, G. A. and Lang, C. A. 1983. Glutathione S-transferase activities in the yellow-fever mosquito [*Aedes aegypti* (Louisville)] during growth and aging. *Biochem. J.* 210(2):281-287.
- Hazelton, G. A. and Lang, C. A. 1983. Glutathione biosynthesis in the aging adult yellow-fever mosquito [*Aedes aegypti* (Louisville)]. *Biochem. J.* 210(2):289-295.
- Houk, E. J. and Hardy, J. L. 1982. Midgut cellular responses to bloodmeal digestion in the mosquito, *Culex tarsalis* Coquillett (Diptera: Culicidae). *Internat. J. Insect. Morphol. and Embryol.* 11(2):109-119.
- Igbokwe, E. C. and Mills, M. 1982. Spectrophotometric and serosystematic comparison of three species of *Aedes* mosquitoes. *Compar. Biochem. and Physiol.* 73B(2):747-749.
- Jones, J. C. 1983. A note on the life history of insects. *Ann. Ent. Soc. Amer.* 76(3):320-321.
- Lee, R. M. K. W. and Craig, D. A. 1983. Cibarial sensilla and armature in mosquito adults (Diptera: Culicidae). *Canad. J. Zool.* 61(3):633-646.
- Smolina, N. A. 1982. Epidermal oenocytes connected with maxillary palpal chemoreceptors in blood-sucking mosquito males. *Vest. Zool. (Kiev)* 65(4):79-81. In Rus., Engl. Sum. [*Culiseta annulata*.]
- Sokolova, M. I. 1983. Diagnostic significance of ovariole structures for determination of the physiological age of blood-sucking mosquitoes. *Med. Parazit. i Parazit. Bolezni* 61(2):53-58. In Rus., Engl. Sum.
- Strange, K., Phillips, J. E. and Quamme, G. A. 1982. Active HCO_3^- -secretion in the rectal salt gland of a mosquito larva inhabiting $\text{NaHCO}_3\text{-CO}_3$ lakes. *J. Expt. Biol.* 101D:171-186.
- Trueman, D. W. and McIver, S. B. 1983. Seasonal incidence of single and multiple parity in *Mansonia perturbans* (Diptera: Culicidae). *Canad. Ent.* 115(4):435-438.

TECHNIQUES

- McLaughlin, R. E. 1983. An improved constant flow device for dispensing liquid mosquito larvicides to flowing water. *Mosquito News* 43(2):232-235.
- Stewart, R. J. and Schaefer, C. H. 1983. The relationship between dipper counts and the absolute density of *Culex tarsalis* larvae and pupae in rice fields. *Mosquito News* 43(2):129-135.

Techniques—Tissue Culture

- Ermakova, N. I. and Kats, Z. G. 1980. Requirement of a transplantable line of *Aedes aegypti* L. cells in amino acids. *Sib. Vestnik S-kh Nauki* 6:59-61. In Rus.

TAXONOMY AND DISTRIBUTION

- Breeland, S. G. and Loyless, T. M. 1982. Illustrated keys to the mosquitoes of Florida adult females and fourth stage larvae. *J. Fla. Anti-Mosquito Assoc.* 53(2):63-84.
- Darsie, R. F., Jr. 1983. The occurrence of *Psorophora cingulata* and *Uranotaenia apicalis* in Guatemala. *Mosquito Systematics* 15(1):28-32.
- Dong, X. S., Wang, Z. Z. and Lu, Y. R. 1983. A new record of *Culex* from China. *Acta Zootax. Sinica* 8(2):161. In Chin. [*Culex dispectus*.]
- Harbach, R. E. and Harrison, B. A. 1983. Freeze-drying adult mosquitoes for taxonomic study. *Mosquito Systematics* 15(1):50-54.
- Huang, F. S., Wang, X. X. and Xiao, G. Z. 1983. The first record of mosquitoes of genera *Hodgesia*, *Ficalbia* (M.) sp. from China. *Acta Ent. Sinica* 26(1):120. In Chin.
- Lu, P. L. and Chen, J. Y. 1983. *Aedes (S.) sibiricus* Danilov and Filippova, 1978. Note on the mosquitoes new to China, 8. *Acta Zootax. Sinica* 8(2):208. In Chin.
- Ma, S. F. and Xu, B. H. 1983. Studies on the morphological variation of the *Anopheles (A.) lindesayi* Giles in China. *Acta Ent. Sinica* 26(1):93-98. In Chin., Engl. Sum.
- McNelly, J. and Crans, W. J. 1983. *Psorophora howardi*, an addition to the checklist of New Jersey mosquitoes. *Mosquito News* 43(2):237-239. [New State record.]
- Minár, J. 1981. Results of Czechoslovak-Iranian entomological expeditions to Iran. Diptera: Culicidae, Oestridae. *Acta Ent. Musei Nationalis Pragae* 40:83-84.
- Miyagi, I., Toma, T. and Iha, S. 1983. Studies on the mosquitoes in Yaeyama Islands, Japan 8. On the mosquitoes collected in Yonagunijima. *Jap. J. Sanit. Zool.* 34(1):1-6. In Jap., Engl. Sum.
- Miyagi, I., Toma, T. and Rivera, D. G. 1983. *Topomyia (Topomyia) cabrerai*, a new species from the Philippines (Diptera: Culicidae). *Mosquito Systematics* 15(1):1-4. [n.sp.]
- Miyagi, I., Toma, T., Suzuki, H. and Okazawa, T. 1983. Mosquitoes of the Tokara Archipelago, Japan. *Mosquito Systematics* 15(1):18-27.
- Miyagi, I., Toma, T. and Tsukamoto, M. 1983. Description of a new species, *Tripteroides (Tripteroides) riverai* from the Philippines (Diptera: Culicidae). *Mosquito Systematics* 15(1):5-17. [n.sp.]
- Mohrig, W. 1981. Über das Verschwinden von *Culex modestus* im Küstenbezirk. *Entomologische Nach.* 25(2-3):37-38.
- Pashley, D. N. and Pashley, D. P. 1983. Observations on *Aedes (Stegomyia)* mosquitoes in Micronesia and Melanesia. *Mosquito Systematics* 15(1):41-49.
- Ramalingam, S. 1983. *Topomyia houghtoni* Feng, a new record in Malaysia and a redescription of the adult and immature stages. *Mosquito Systematics* 15(1):33-40.
- Taylor, D. B. 1980. New distribution records for mosquitoes (Diptera: Culicidae) in St. Joseph County, Indiana. *Proc. Indiana Acad. Sci.* 90:274-280.
- See also Encinas Grandes in Book Section
- World Health Organization. 1983. Vaccination certificate requirements for international travel and health advice to travellers. 70 pp., 3 maps.
- Aaskov, J. G. and Coauthors. 1981. Epidemic polyarthritides in northeastern Australia, 1978-1979. *Med. J. Australia* 2(1):17-19. [Ross River virus.]
- Aaskov, J. G. and Coauthors. 1981. Evidence for transplacental transmission of Ross River virus in humans. *Med. J. Australia* 2(1):20-21.
- Adekoju-John, E. O. and Fagbami, A. H. 1983. Arthropod-borne virus antibodies in sera of residents of Kainji Lake Basin, Nigeria 1980. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):149-151.
- Akashi, H. and Bishop, D. H. L. 1983. Comparison of the sequences and coding of LaCrosse and Snowshoe Hare bunyavirus S RNA species. *J. Virology* 45(3):1155-1158.
- Aleck, K. A. and Coauthors. 1983. Absence of intrauterine infection following Ross River virus infection during pregnancy. *Amer. J. Trop. Med. and Hyg.* 32(3):618-620.
- Artsob, H. and Coauthors. 1982. Snowshoe Hare virus activity in southern Ontario. *Canad. J. Pub. Health* 73(5):345-349.
- Austin, F. J. and Maguire, T. 1982. Ross River virus in the Southwest Pacific. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 528-531.
- Borborema, C. A. T. and Coauthors. 1982. Primeiro registro de epidemias causadas pelo vírus Oropouche no Estado do Amazonas. *Revista Inst. Med. Trop. S. Paulo* 24(3):132-139.
- Bres, P. 1982. Considerations sur la conduite à tenir vis-à-vis des problèmes de sécurité pour l'étude des fièvres hémorragiques virales et des arboviroses. *Arch. Inst. Pasteur Tunis* 59(1):181-197.
- Crane, G. T., Elbel, R. E., Francy, D. B. and Calisher, C. H. 1983. Arboviruses from western Utah, USA, 1967-1976. *J. Med. Ent.* 20(3):294-300.
- Davey, M., Mahon, R., and Gibbs, A. 1982. Superinfection immunity and the geographical distribution of togaviruses. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 546-549.
- Doherty, R. L. 1982. Arbovirus infections other than dengue in the Western Pacific and South-East Asian areas. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 473-483.
- Fauran, P. and Le Gonidec, G. 1982. Incidence of arboviral diseases and their control in New Caledonia, Wallis and Futuna. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 526-527.
- Hardy, J. L., Houk, E. J., Kramer, L. D. and Reeves, W. C. 1983. Intrinsic factors affecting vector competence of mosquitoes for arboviruses. *Ann. Rev. Ent.* 28:229-262.

SEVERAL DISEASES

ARBOVIRUSES AND OTHER VERTEBRATE VIRUSES

- Hronovský, V. 1982. Effect of protein stabilizer on arbovirus haemagglutination. *Cesk. Epidemiol. Mikrobiol. Immunol.* 31(5):277-282. Engl. Sum.
- Hurwitz, E. S. and Coauthors. 1983. Surveillance for California encephalitis group virus illness in Wisconsin and Minnesota, 1978. *Amer. J. Trop. Med. and Hyg.* 32(3):595-601.
- Iversson, L. B., Travassos Da Rosa, A. P. A. and Travassos Da Rosa, J. 1981. A serological study for research of arbovirus antibodies in human population of the Ribeira Valley Region. II. A survey of patients in the Parauera-Acu Regional Hospital, 1980. *Revista de Saude Pub.* 15(6):587-602. In Por., Engl. Sum.
- Kay, B. H. and Coauthors. 1982. Vectors of Ross River virus: an overview. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 532-536.
- Kliks, S. C. and Halstead, S. B. 1983. Role of antibodies and host cells in plaque enhancement of Murray Valley encephalitis virus. *J. Virology* 46(2):394-404.
- Knudson, D. L. and Coauthors. 1982. Electrophoretic comparison of the genomes of North American bluetongue viruses, one Australian bluetongue virus, and three other related orbiviruses. *Vet. Microbiol.* 7(4):285-293.
- Labuda, M. and Kozuch, O. 1982. Tahyna virus in the districts of Bratislava. *Acta Virologica* 26(5):407.
- Lehane, M. J. and Leake, C. J. 1982. A kinetic and ultrastructural comparison of alphavirus infection of cultured mosquito and vertebrate cells. *J. Trop. Med. and Hyg.* 85(6):229-238.
- Mahon, R. and Gibbs, A. 1982. Arbovirus-infected hens attract more mosquitoes. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 502-505.
- Nuttall, P. A. and Coauthors. 1982. Orbi- and Bunyaviruses from a puffin colony in the Outer Hebrides. *Arch. Virology* 74(4):259-268. [*Aedes albopictus* included.]
- Olson, J. G. and Coauthors. 1983. A survey for arboviral antibodies in sera of humans and animals in Lombok, Republic of Indonesia. *Ann. Trop. Med. and Parasitol.* 77(2):131-137.
- Parsonson, I. M., Della-Porta, A. J. and McPhee, D. A. 1982. Pathogenesis and virulence studies of Australian Simbu serogroup bunyaviruses. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, A. J. S.), pp. 644-647.
- Pesonen, M., Rönholm, R., Kuusmanen, E. and Pettersson, R. F. 1982. Characterization of the oligosaccharides of Inkoo virus envelope glycoproteins. *J. General Virol.* 63(2):425-434.
- Pinheiro, F. P. and Coauthors. 1982. Meningite associada a infecções por vírus Oropouche. *Rev. Inst. Med. Trop. S. Paulo* 24(4):246-251.
- Reeves, W. C. 1982. The expanding gap between epidemiological knowledge of arboviruses and their effective control. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 498-501.
- Roehrig, J. T. 1982. Development of an enzyme-linked immunosorbent assay for the identification of arthropod-borne togavirus antibodies. *J. General Virol.* 63(1):237-240.
- Seay, A. R. and Wolinsky, J. S. 1982. Ross River virus-induced demyelination. I. Pathogenesis and histopathology. *Ann. Neurol.* 12(4):380-389.
- Sedmak, J. J. and Coauthors. 1983. Interferon and antibody titrations using haemagglutinating Togaviridae and trypsinized human erythrocytes. *J. Virological Methods* 6(2):99-105.
- Self, L. S. 1982. WHO activities on controlling vectors of arboviral diseases in the Western Pacific Region. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 494-497.
- Skogh, M. and Espmark, A. 1982. Ockelby disease—an exanthema—arthritis caused by a mosquito-borne alpha-arbovirus. *Lakartidningen* 79(24):2379-2380. In Swed.
- Wolfe, M. S., Calisher, C. H. and McGuire, K. 1982. Spondweni virus infection in a foreign resident of Upper Volta. *Lancet* 8311:1306-1308.
- Arboviruses—Dengue*
- Bhamarapravati, N. 1981. Pathology and pathogenesis of DHF. Proc. First ICMR Seminar Nov 21-22, 1980 (edited by Hotta, S.) pp. 207-216.
- Chatyianonda, K. 1981. DHF in Thailand, 1979: seroepidemiological aspects. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 107-111.
- Chaturvedi, U. C. 1981. Study of immune mechanisms in dengue virus-infected mice. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 159-168.
- Churdboonchart, V., Bhamarapravati, N. and Futrakul, P. 1983. Crossed immunoelectrophoresis for the detection of split products of the third complement in dengue hemorrhagic fever. I. Observations in patients' plasma. *Amer. J. Trop. Med. and Hyg.* 32(3):569-576.
- Eckels, K. H., Summers, P. L. and Russell, P. K. 1983. Temperature-sensitive events during the replication of the attenuated S-1 clone of dengue type 2 virus. *Infect. and Immunity* 39(2):750-754.
- Fujita, N. 1981. Approaches to anti-dengue vaccine. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 71-79.
- Fukunaga, T. 1981. Isolation and identification of viruses from patients with dengue infection. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 49-58.
- Funahara, Y. 1981. An acute type of disseminated intravascular coagulation characterized by decrease of alpha₂ plasmin inhibitor in dengue hemorrhagic fever. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 217-223.
- Gunakasem, P. 1982. Plasma as a better source for dengue virus recovery from dengue hemorrhagic fever patients. *J. Med. Assoc. Thailand* 65(3):115-119.
- Halstead, S. B. 1981. Immune enhancement of dengue infection—research questions. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 115-127.
- Hotta, S. (Editor-in-Chief) 1981. Dengue hemorrhagic fever. Proc. First ICMR Seminar, Nov. 21-22, 1980. 253 pp. Kobe, Japan.

- Hotta, H. and Coauthors. 1981. Experimental dengue virus infection using athymic nude mice. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 151-158.
- Huang, Z. and Coauthors. 1982. Epidemiologic investigation on dengue fever in the north of Zhanxian County of Hainan Island. *Natl. Med. J. China* 62(10):605-609. In Chin., Engl. Sum.
- Igarashi, A. 1981. Production of temperature-sensitive virus from and superinfection-resistance of *Aedes albopictus* cells persistently infected with dengue viruses. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 35-47.
- Ikeuchi, H. 1981. Immunopathological analysis of serum and lymphocyte of DHF patients. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 169-176.
- Inouye, S. 1981. Isolation and identification of dengue viruses by combined use of C6/36 cells and the immune adherence hemagglutination test. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 59-67.
- Johnson, B. K. and Coauthors. 1982. Epidemic dengue fever caused by dengue type 2 virus in Kenya: preliminary results of human virological and serological studies. *East Afr. Med. J.* 59(12):781-785.
- Kaplan, J. E. and Coauthors. 1983. Epidemiologic investigations of dengue infection in Mexico, 1980. *Amer. J. Epidemiol.* 117(3):335-343.
- Khin, M. M. and Than, K. A. 1983. Transovarial transmission of dengue 2 virus by *Aedes aegypti* in nature. *Amer. J. Trop. Med. and Hyg.* 32(3):590-594.
- Malison, M. D. and Waterman, S. H. 1983. Dengue fever in the United States. A report of a cluster of imported cases and review of the clinical, epidemiologic, and public health aspects of the disease. *J. Amer. Med. Assoc.* 249(4):496-500.
- Mataika, J. U. and Miles, J. A. R. 1982. Epidemiology of dengue in Fiji. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 506-508.
- Mori, R. 1981. Cell-mediated mechanisms of resistance and pathogenesis in viral infections: studies in athymic nude mice. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 137-147.
- Nisalak, A., Burke, D. S. and Usery, M. A. 1982. Spontaneous *in vitro* dengue antibody production by mononuclear leukocytes from patients with dengue hemorrhagic fever. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 521-523.
- Okuno, Y., Fukunaga, T., Tadano, M. and Fukai, K. 1982. Serological studies on a case of laboratory dengue infection. *Biken J.* 25(4):163-170.
- Pang, T., Devi, S., Pereira, R. A. and Lam, S. K. 1982. Monoclonal antibodies to dengue-4 virus. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 524-525.
- Pang, T. and Lam, K. S. K. 1983. The immunopathogenesis of dengue haemorrhagic fever. *Immunology Today* 4(2):46-49.
- Pang, T., Wong, P. Y., Devi, S. and Pathmanathan, R. 1982. Cell-mediated immune responses in mice infected with dengue-4 virus. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 509-512.
- Porterfield, J. S. 1982. Immunological enhancement and the pathogenesis of dengue haemorrhagic fever. *J. Hygiene* 89(3):355-364.
- Porterfield, J. S., Cardosa, M. J., Peiris, J. S. M. and Burke, D. S. 1982. Antibody mediated enhancement of dengue virus yields in mouse macrophages using human sera. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 517-520.
- Repik, P. M. and Coauthors. 1983. RNA fingerprinting as a method for distinguishing dengue 1 virus strains. *Amer. J. Trop. Med. and Hyg.* 32(3):577-589.
- Rosen, L. 1982. Dengue—an overview. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 484-493.
- Russell, P. K. 1981. Specificity and biological activity of monoclonal anti-dengue antibodies. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 81-93.
- Schlesinger, R. W. 1981. General review of dengue and dengue hemorrhagic fever. Proc. First ICMR Seminar, Nov. 21-22, 1980 (edited by Hotta, S.) pp. 13-31.
- Shukla, M. I. and Chaturvedi, U. C. 1983. Transmission of dengue virus-induced suppressor signal from macrophage to lymphocyte occurs by cell contact. *Brit. J. Expt. Path.* 64(1):87-92.
- Sumarmo, —, Latu, J., Suryaatmajaya, M. and Nathin, M. A. 1981. Studies of the liver function in dengue haemorrhagic fever. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 191-206.
- Uribe, L. J. 1983. The problem of *Aedes aegypti* control in the Americas. *Bol. Ofic. Sanit. Panamer.* 94(5):473-481. In Sp., Engl. Sum.
- van Tongeren, H. A. E. 1983. Dengue haemorrhagic fever—case report. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):198-200.
- Walker, P. J., Garrett, S. T., Gorman, B. M. and Burke, D. S. 1982. Genetic analysis of strain variation in dengue type 2 viruses. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.) pp. 513-516.
- Weiss, R. C. and Scott, F. W. 1981. Antibody-mediated enhancement of disease in feline infectious peritonitis: comparisons with dengue hemorrhagic fever. *Compar. Immunol. Microbiol. Infect. Dis.* 4(2):175-189.
- Woodall, J. P., Lopez-Correa, R. H., Sather, G. E. and Moore, C. G. 1981. The absence of epidemic dengue hemorrhagic fever from the Americas. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 95-106.
- Yaté, J. 1981. Immunosuppressive effect of virus infection on human immune system. Proc. First ICMR Seminar Nov. 21-22, 1980 (edited by Hotta, S.) pp. 129-136.

Arboviruses—Japanese Encephalitis

- Bundo, K. and Coauthors. 1983. Enzyme-linked immunosorbent assay on Japanese encephalitis virus.

- VI. Antibody response in human vaccinees.** Trop. Med. (Nagasaki) 25(1):23-35. Jap. Sum.
- Burke, D. S., Nisalak, A. and Ussery, M. A. 1982. Diagnosis of Japanese encephalitis by detection of IgM and IgG virus specific antibodies in cerebrospinal fluid by "antibody capture" immunoassay. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 537-540.
- Hayashi, K. 1982. Some problems of bacterial and viral infection in mice and the ecology of Japanese encephalitis virus in Japan. Trop. Med. (Nagasaki) 24(4):187-201. Jap. Sum.
- Huang, C. H. 1982. Studies of Japanese encephalitis in China. Advances in Virus Res. 27:71-101.
- Junko, K. K. and Yasui, K. 1983. Topographical analysis of antigenic determinants on envelope glycoprotein V3 (E) of Japanese encephalitis virus, using monoclonal antibodies. J. Virology 45(1):124-132.
- Kang, S. H. 1980. Appearance of the vector of Japanese encephalitis, *Culex tritaeniorhynchus*, in Seoul. Korea Univ. Med. J. 17(3):439-444. Kor. Sum.
- Konishi, E. and Yamaoka, M. 1982. Evaluation of enzyme-linked immunosorbent assay for quantitation of antibodies to Japanese encephalitis virus in swine area. J. Virological Methods 5(5-6):247-253.
- Lin, W. J. 1982. The analysis on antigenic determinants of Japanese encephalitis virus with reference to the monoclonal antibody. Trop. Med. (Nagasaki) 24(4):165-177. Jap. Sum.
- Sasaki, O. and Coauthors. 1982. Protection of pigs against mosquito-borne Japanese encephalitis virus by immunization with a live attenuated vaccine. Antiviral Res. 2(6):355-360.
- Sugamata, M. and Miura, T. 1982. Japanese encephalitis virus infection in fetal mice at different stages of pregnancy I. Stillbirth. Acta Virologica 26(4):279-282.
- Yamaoka, M., Konishi, E. and Matsumura, T. 1982. Use of enzyme-linked immunosorbent assay for detection of IgM antibodies to Japanese encephalitis virus in swine sera. Kobe J. Med. Sci. 28(4):143-153.
- Arboviruses—Rift Valley Fever**
- Coetzter, J. A. W. and Ishak, K. G. 1982. Sequential development of the liver lesions in new-born lambs infected with Rift Valley fever virus. I. Macroscopic and microscopic pathology. Onderstepoort J. Vet. Res. 49(2):103-108.
- Coetzter, J. A. W., Ishak, K. G. and Calvert, R. C. 1982. Sequential development of the liver lesions in new-born lambs infected with Rift Valley fever virus. II. Ultrastructural findings. Onderstepoort J. Vet. Res. 49(2):109-122.
- Kark, J. D., Aynor, Y. and Peters, C. J. 1982. A Rift Valley fever vaccine trial. I. Side effects and serologic response over a six-month follow-up. Amer. J. Epidemiol. 116(5):808-820.
- Swanepoel, R., Struthers, J. K. and McGillivray, G. M. 1983. Reversed passive hemagglutination and inhibition with Rift Valley fever and Crimean-Congo hemorrhagic fever viruses. Amer. J. Trop. Med. and Hyg. 32(3):610-617.
- Arboviruses—Semliki Forest**
- Fazakerley, J. K., Amor, S. and Webb, H. E. 1983. Reconstitution of Semliki Forest virus infected mice, induces immune mediated pathological changes in the CNS. Clin. and Expt. Immunol. 52(1):115-120.
- Griffiths, G., Quinn, P. and Warren, G. 1983. Dissection of the Golgi complex. I. Monensin inhibits the transport of viral membrane proteins from medial to trans Golgi cisternae in baby hamster kidney cells infected with Semliki Forest virus. J. Cell Biol. 96(3):835-850.
- Helenius, A. and Marsh, M. 1982. Endocytosis of enveloped animal viruses. Ciba Found. Symposium no. 92:59-76. [Semliki Forest virus.]
- Helenius, A., Marsh, M., and White, J. 1982. Inhibition of Semliki Forest virus penetration by lysosomotropic weak bases. J. General Virol. 58(1):47-61.
- Marsh, M., Bolzau, E. and Helenius, A. 1983. Penetration of Semliki Forest virus from acidic pre-lysosomal vacuoles. Cell 32(3):931-940.
- Marsh, M., Bolzau, E., White, J. and Helenius, A. 1983. Interactions of Semliki Forest virus spike glycoprotein rosettes and vesicles with cultured cells. J. Cell Biol. 96(2):455-461.
- Parsons, L. M. and Webb, H. E. 1982. Blood brain barrier disturbance and immunoglobulin G levels in the cerebrospinal fluid of the mouse following peripheral infection with the demyelinating strain of Semliki Forest virus. J. Neurological Sciences 57(2-3):307-318.
- Arboviruses—Sindbis**
- Baric, R. S., Carlin, L. J. and Johnston, R. E. 1983. Requirement for host transcription in the replication of Sindbis virus. J. Virology 45(1):200-205.
- Cole, G. A. and Schmaljohn, A. L. 1982. Protection against lethal Sindbis virus infection with specific monoclonal antibodies. In *Viral diseases in South-East Asia and the Western Pacific* (edited by Mackenzie, J. S.), pp. 541-545.
- Davidson, S. K. and Hunt, L. A. 1983. Unusual neutral oligosaccharides in mature Sindbis virus glycoproteins are synthesized from truncated precursor oligosaccharides in Chinese hamster ovary cells. J. General Virol. 64(3):613-625.
- Edwards, J., Mann, E. and Brown, D. T. 1983. Conformational changes in Sindbis virus envelope proteins accompanying exposure to low pH. J. Virology 45(3):1090-1097.
- Erwin, C. and Brown, D. T. 1983. Requirement of cell nucleus for Sindbis virus replication in cultured *Aedes albopictus* cells. J. Virology 45(2):792-799.
- Hirsch, R. L., Griffin, D. E. and Winkelstein, J. A. 1983. Natural immunity to Sindbis virus is influenced by host tissue sialic acid content. Proc. Natl. Acad. Sci. USA 80(2):548-550.
- Hsieh, P., Rosner, M. R. and Robbins, P. W. 1983. Host-dependent variation of asparagine-linked oligosaccharides at individual glycosylation sites of Sindbis virus glycoproteins. J. Biol. Chem. 258(4):2548-2554.

- Hsieh, P., Rosner, M. R. and Robbins, P. W. 1983. Selective cleavage by endo- β -N-acetylglucosaminidase H at individual glycosylation sites of Sindbis virion envelope glycoproteins. *J. Biol. Chem.* 258(4):2555-2561.
- Mann, E., Edwards, J. and Brown, D. T. 1983. Polycaryocyte formation mediated by Sindbis virus glycoproteins. *J. Virology* 45(3):1083-1089.

Arboviruses—St. Louis Encephalitis

- Harrison, A. K., Murphy, F. A. and Gardner, J. J. 1982. Visceral target organs in systemic St. Louis encephalitis virus infection of hamsters. *Expt. and Molecular Path.* 37(3):292-304.
- Hendricks, D. A., Hardy, J. L. and Reeves, W. C. 1983. Comparison of biological properties of St. Louis encephalitis and Rio Bravo viruses. *Amer. J. Trop. Med. and Hyg.* 32(3):602-609.
- Hollingshead, P. G., Jr., Brawner, T. A. and Fleming, T. P. 1983. St. Louis encephalitis virus temperature-sensitive mutants. I. Induction, isolation and preliminary characterization. *Arch. Virol.* 75(3):171-179.

Arboviruses—Venezuelan Equine Encephalitis

- Dickerman, R. W. and Scherer, W. F. 1983. Equine herds as sentinels for Venezuelan equine encephalitis virus activity, Nicaragua 1977. *Bul. Pan Amer. Hlth. Organ.* 17(1):14-18.
- Gaidamovich, S. J. and Coauthors. 1982. The properties of MAK-14-7 monoclonal antibodies to Venezuelan equine encephalomyelitis virus. *Doklady Akad. Nauk SSSR* 267(2):466-468. In Rus.
- Huggins, J. W., Jahring, P. B., Rill, W. and Linden, C. D. 1983. Characterization of the binding of the TC-83 strain of Venezuelan equine encephalomyelitis virus to BW-J-M, a mouse macrophage-like cell line. *J. General Virol.* 64(1):149-157.
- Kinney, R. M., Trent, D. W. and France, J. K. 1983. Comparative immunological and biochemical analyses of viruses in the Venezuelan equine encephalitis complex. *J. General Virol.* 64(1):135-147.
- Mathews, J. H. and Roehrig, J. T. 1982. Determination of the protective epitopes on the glycoproteins of Venezuelan equine encephalomyelitis virus by passive transfer of monoclonal antibodies. *J. Immunol.* 129(6):2763-2767.

- Morales, A., Romero, M., Olano, V. A. and de Calvache, D. 1982. Demostracion del virus de la encefalitis equina Venezolana tipo enzootico en la hemolinfa de mosquitos *Psorophora confinis* infectados por via oral. *Biomedica* 2(3):111-117. Engl. Sum.

- Torres, R. M. and Lobo, A. C. 1979. Standardization of the agar double diffusion technique for studying Venezuelan equine encephalitis. *Revista Inst. Colombiano Agropecu.* 14(3):199-208. In Span., Engl. Sum.

- Wiebe, M. E., Scherer, W. F. and Peick, W. J. 1983. Marker characteristics of Venezuelan encephalitis virus strains isolated before and after epidemics and equine epizootics in Middle America. *Amer. J. Epidemiol.* 117(2):201-212.

Arboviruses—West Nile

- Kedarnath, N. and Coauthors. 1983. Interferon induction by flavi- and orbiviruses in L-M cell line. *Acta Virologica* 27(1):80-82.

Arboviruses—Western Equine Encephalitis

- Bell, J. R. and Coauthors. 1983. Structural proteins of western equine encephalitis virus: amino acid compositions and N-terminal sequences. *J. Virology* 45(2):708-714.
- Simizu, B., Hashimoto, K. and Ishida, I. 1983. A variant of western equine encephalitis virus with non-glycosylated E3 protein. *Virology* 125(1):99-106.
- White, D. P., Miller, F. and Erickson, R. W. 1983. Sleep apnea and nocturnal hypoventilation after western equine encephalitis. *Amer. Rev. Resp. Dis.* 127(1):132-133.

Arboviruses—Yellow Fever

- Angolotti, E. 1980. La fiebre amarilla. Historia y situacion actual. La fiebre amarilla en la Barcelona de 1821. *Revista Sanid. e Hig. Publica* (Madrid) 54(1-2):89-102.
- Deubel, V. and Coauthors. 1983. Comparison of the enzyme-linked immunosorbent assay (ELISA) with standard tests used to detect yellow fever virus antibodies. *Amer. J. Trop. Med. and Hyg.* 32(3):565-568.
- Downs, W. G. 1982. History of epidemiological aspects of yellow fever. *Yale J. Biol. and Med.* 55 (3-4):179-185.
- Liprandi, F. and Walder, R. 1983. Replication of virulent and attenuated strains of yellow fever virus in human monocytes and macrophage-like cells (U937). *Arch. Virology* 76(1):51-61.
- Olson, K. B. 1983. Deaths associated with yellow fever experiments. *J. Amer. Med. Assoc.* 249(9):1150-1151. [Also letters by Hachenburg, D. and Crosby, W. H.]
- Schlesinger, J. J., Brandriss, M. W. and Monath, T. P. 1983. Monoclonal antibodies distinguish between wild and vaccine strains of yellow fever virus by neutralization, hemagglutination inhibition, and immune precipitation of the virus envelope protein. *Virology* 125(1):8-17.
- Seagroatt, V. and Magrath, D. I. 1983. A W.H.O. collaborative study of *in vitro* and *in vivo* methods for the assay of yellow fever vaccines. *J. Biological Standardization* 11(1):47-54.

FILARIASIS

- Au, A. C. S., Denham, D. A. and Draper, C. C. 1982. Detection of antibodies in *Brugia pahangi*-infected cats by counter immunoelectrophoresis, indirect fluorescent antibody test and enzyme-linked immunosorbent assay. *Z. f. Parasitenkunde* 68(3):313-320.
- Chakraverty, R. K. and Coauthors. 1982. Amodiaquine as a filaricide. *J. Commun. Dis.* 14(4):306-308.
- Chernin, E. 1983. Sir Patrick Manson's studies on the transmission and biology of filariasis. *Reviews Infect. Dis.* 5(1):148-166.
- Crandall, R. B. and Coauthors. 1983. Antibody responses to experimental *Brugia malayi* infections in Patas and Rhesus monkeys. *Acta Tropica* 40(1):53-64.
- Curtis, C. F. and Coauthors. 1983. Susceptibility of aposymbiotic *Culex quinquefasciatus* to *Wuchereria bancrofti*. *J. Invert. Path.* 41(2):214-223.
- Dean, G. S., Playfair, J. H. L., Denham, D. A. and Noscoe, N. 1983. Effect of immunosuppressive or inflammatory agents on lymphatic dilatation in cats infected with *Brugia pahangi*. *Parasite Immunol.* 5(2):113-122.
- Denham, D. A., McGreevy, P. B., Susillo, R. R. and Rogers, R. 1983. The resistance to reinfection of cats repeatedly inoculated with infective larvae of *Brugia pahangi*. *Parasitology* 86(1):11-18.
- Enarson, D. A. and Enarson, P. M. 1982. Filariasis in an upland population in the Philippines. *Trop. and Geog. Med.* 34(4):353-358.
- Furman, A. and Ash, L. R. 1983. Analysis of *Brugia pahangi* microfilariae surface carbohydrates: comparison of the binding of a panel of fluoresceinated lectins to mature in vivo-derived and immature in utero-derived microfilariae. *Acta Tropica* 40(1):45-51.
- Furman, A. and Ash, L. R. 1983. Infections of *Brugia pahangi* in neonate mice. *J. Parasitol.* 69(2):441-442.
- Gandahusada, S. and Coauthors. 1980. Distribution and prevalence of Malayan filariasis in South Sulawesi, Indonesia. *Bul. Penelitian Kesehatan 8(1-2):22-28.*
- Grigsby, M. E. 1982. An endemic disease survey of Bong County, Liberia. *J. Natl. Med. Assoc.* 74(11):1093-1102.
- Hira, P. R. 1983. Further spurious parasitic infestations of man in Zambia. *Cent. Afr. J. Med.* 29(2):33-34. [*Wuchereria bancrofti* included.]
- Howells, R. E., Mendis, A. M. and Bray, P. G. 1983. The mechanisms of amino acid uptake by *Brugia pahangi* in vitro. *Z. f. Parasitenkunde* 69(2):247-253.
- Maizels, R. M., Partono, F., Oemijati, S. and Ogilvie, B. M. 1983. Antigenic analysis of *Brugia timori*, a filarial nematode of man: initial characterization by surface radioiodination and evaluation of diagnostic potential. *Clin. and Expt. Immunol.* 51(2):269-277.
- Nathan, M. B. and Coauthors. 1982. Parasitological and clinical studies of *Wuchereria bancrofti* and *Mansoniella ozzardi* in coastal north Trinidad, West Indies. *West Indian Med. J.* 31(4):168-176.
- Okamoto, K. and Ohi, Y. 1983. Recent distribution and treatment of filarial chyluria in Japan. *J. Urology* 129(1):64-67.
- Rao, C. K. 1982. Filariasis control in primary health care. *J. Commun. Dis.* 14(3):206-211.
- Sharma, H. N., Hamzakoya, K. K. and Rao, C. K. 1982. Relative effectiveness of DEC five-day schedule and medicated salt regimen. *J. Commun. Dis.* 14(4):303-305.
- Filariasis—Dirofilaria*
- Atwell, R. B. and Boreham, P. F. L. 1982. Possible mechanisms of the caval syndrome in dogs infected with *Dirofilaria immitis*. *Austral. Vet. J.* 59(5):161-162.
- Blair, L. S., Malatesta, P. F. and Ewanciw, D. V. 1983. Dose-response study of ivermectin against *Dirofilaria immitis* microfilariae in dogs with naturally acquired infections. *Amer. J. Vet. Res.* 44(3):475-477.
- Blair, L. S., Williams, E. and Ewanciw, D. V. 1982. Efficacy of ivermectin against third-stage *Dirofilaria immitis* larvae in ferrets and dogs. *Res. in Vet. Sci.* 33(3):386-387.
- Buoro, I. B. J. and Atwell, R. B. 1983. Urinalysis in canine dirofilariasis with emphasis on proteinuria. *Vet. Record* 112(11):252-253.
- Desowitz, R. S., Palumbo, N. E. and Perri, S. F. 1983. The occurrence of an adverse reaction to chloroquine in *Dirofilaria immitis*-infected dogs. *Tropenmed. u. Parasitol.* 34(1):27-29.
- Fujita, K. and Tsukidate, S. 1982. Localization of highly purified allergen and IgG-inducing antigen in adult *Dirofilaria immitis* determined by fluorescent antibody test. *Trop. Med. (Nagasaki)* 24(4):219-227. *Jap. Sum.*
- Kotani, T. and Powers, K. G. 1982. Developmental stages of *Dirofilaria immitis* in the dog. *Amer. J. Vet. Res.* 43(12):2199-2206.
- Rawlings, C. A. and Coauthors. 1983. Post-adulticide changes in *Dirofilaria immitis*-infected beagles. *Amer. J. Vet. Res.* 44(1):8-15.
- Sauerman, D. M., Jr. and Nayar, J. K. 1983. A survey for natural potential vectors of *Dirofilaria immitis* in Vero Beach, Florida. *Mosquito News* 43(2):222-225.
- Schaub, R. G., Keith, J. C., Jr., and Rawlings, C. A. 1983. Effect of acetylsalicylic acid on vascular damage and myointimal proliferation in canine pulmonary arteries subjected to chronic injury by *Dirofilaria immitis*. *Amer. J. Vet. Res.* 44(3):449-454.
- Todd, K. S., Jr., and Howland, T. P. 1983. Transplacental transmission of *Dirofilaria immitis* microfilariae in the dog. *J. Parasitol.* 69(2):371.
- MALARIA**
- Akhtar, R. 1982. Colonization and its impact on the incidence of malaria in the Tarai region of Uttar Pradesh, India. *Geographia Med.* 12:59-77.
- Amat-Roze, J. M. and Remy, G. 1982. Epidemiological feature of malaria in the Ivory Coast and Upper Volta area. *Med. Trop. (Marseille)* 42(4):383-392. In Fr., Engl. Sum.

- Bah, M. D., Diallo, S., Correa, P. and Victorius, A. 1981. Prevalence de l'association paludisme et grossesse et ses variations en milieu urbain à Dakar. *Afr. Med.* 20:483-490.
- Barreto, O. C. O. P. and Nonoyama, K. 1982. Polimorfismos dependientes de la malaria en la población negra de São Paulo. *Sangre (Barc.)* 27(3):33-336.
- Bruce-Chwatt, L. J. 1983. Malaria and pregnancy. *Brit. Med. J.* 286(6376):1457-1458.
- Chapin, G. and Wasserstrom, R. 1983. Final words on malaria's return. *Nature (London)* 302(5907):372. [Also letter by Sharma, V. P. and Mehrotra, K. N.]
- Charles, D. and Bertrand, E. 1982. Heart and malaria. *Med. Trop. (Marseille)* 42(4):405-409. In Fr., Engl. Sum.
- Cimaglia, A. and Coauthors. 1982. Malaria quartana in bambini di 2 anni. *Minerva Pediatrica* 34(21):921-924.
- Clark, I. A., Cowden, W. B., Butcher, G. A. and Hunt, N. H. 1983. Free oxygen radicals in malaria. *Lancet* 8320:359.
- Collier, J. A. B. and Longmore, J. M. 1983. The reliability of the microscopic diagnosis of malaria in the field and in the laboratory. *Ann. Trop. Med. and Parasitol.* 77(2):113-117.
- Colombo, E. and Coauthors. 1982. Malaria da *Plasmodium falciparum* trasmessa per contagio interumano in un gruppo di tossicomani. *Minerva Med.* 73(48):3445-3448.
- Corrêa, P. and Coauthors. 1982. Paludisme et grossesse. *J. Gynecol. Obstet. Biol. Repro. (Paris)* 11(1):3-42.
- Cox, F. E. G. 1983. Free oxygen radicals in malaria. *Lancet* 8323:535. [Also letter by Playfair, J. H. L. and Dockrell, H. M.]
- Delmont, J. and Quilici, M. 1982. Seroimmuno-logic diagnosis of malaria (techniques and application). *Med. Trop. (Marseille)* 42(4):397-403. In Fr., Engl. Sum.
- Donovan, J. C., Stokes, W. S., Montrey, R. D. and Rozmiarek, H. 1983. Hematologic characterization of naturally occurring malaria (*Plasmodium inui*) in cynomolgus monkeys (*Macaca fascicularis*). *Lab. Animal Sci.* 33(1):86-89.
- Druilhe, P., Zouali, M., Gentilini, M. and Eyquem, A. 1983. Demonstration of an abnormal increase of anti-T Hemagglutinin titres in malaria infected patients. *Compt. Rend. Acad. Sci. Paris Ser. III* 296(7):339-344. In Fr., Engl. Sum.
- Dwivedi, S. R. and Rajagopal, R. 1982. Control of malaria through primary health care. *J. Commun. Dis.* 14(3):200-205.
- Geniteau, M. 1982. Complexes immuns circulants au cours de trois parasitoses: trichinose, bilharziose, paludisme. *Ann. de Med. Interne (Paris)* 133(5):372-376.
- Gilbreath, M. J. and Coauthors. 1983. Deficient spontaneous cell-mediated cytotoxicity and lectin-induced cellular cytotoxicity by peripheral blood mononuclear cells from Thai adults naturally infected with malaria. *J. Clin. Microbiol.* 17(2):296-304.
- Gopinathan, V. P., Darta, P. K. and Bhopte, A. G. 1981. Falciparum malaria in north eastern sector. *J. Assoc. Physicians India* 29(12):1029-1035.
- Gopinathan, V. P. and Subramanian, A. R. 1982. Pernicious syndromes in *Plasmodium* infections. *Med. J. Australia* 2(12):568-572.
- Hommel, M., David, P. H. and Oligino, L. D. 1983. Surface alterations of erythrocytes in *Plasmodium falciparum* malaria. Antigenic variation, antigenic diversity, and the role of the spleen. *J. Expt. Med.* 157(4):1137-1148.
- Kelton, J. G. and Coauthors. 1983. Immune-mediated thrombocytopenia of malaria. *J. Clin. Investig.* 71(4):832-836.
- Lee, M. V., Abbrus, J. L., DeSouza, J. M. L. and Lee, R. V. 1982. Diminished red blood cell deformability in uncomplicated human malaria. A preliminary report. *J. Med.* 13(5-6):479-485.
- Lechuk, R., Dockrell, H. M. and Playfair, J. H. L. 1983. T-independent macrophage changes in murine malaria. *Clin. and Expt. Immunol.* 51(3):487-493.
- Mansueto, S. and Migneco, G. 1982. Traveller's malaria: two recent cases in boys from Madagascar. *Gior. di Malattie Infett. e Parassit.* 34(4):457-461. In Ital., Engl. Sum.
- Marshall, E. 1983. Genentech bows out of NYU's malaria project. *Science* 220(4596):485.
- McGregor, I. A., Wilson, M. E. and Billewicz, W. Z. 1983. Malaria infection of the placenta in The Gambia, West Africa; its incidence and relationship to stillbirth, birthweight and placental weight. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):232-244.
- Migasena, S. 1983. Hypoglycaemia in falciparum malaria. *Ann. Trop. Med. and Parasitol.* 77(3):323-324.
- Morpurgo, G. P., Modiano, G. and Santachiara-Benerecetti, A. S. 1981. Researches on the biology of Himalayan populations. *Acta Anthropogenetica* 5(4):235-254. [Malaria.]
- Newmark, P. 1983. Cool on malaria. *Nature (London)* 302(5907):366.
- Ngimbi, N. P., Beckers, A. and Wery, M. 1982. Aperçu de la situation épidémiologique du paludisme à Kinshasa (République du Zaïre) en 1980. *Ann. Soc. Belge de Med. Trop.* 62(2):121-137.
- PHLS Communicable Disease Surveillance Centre and PHLS Malaria Reference Laboratory. 1983. Malaria in Britain: 1981. *Brit. Med. J.* 286 (6372):1207-1208.
- Picq, J. J. 1982. Some remarks on the epidemiology of malaria the first worldwide endemia. *Med. Trop. (Marseille)* 42(4):365-381. In Fr., Engl. Sum.
- Pollack, S. 1983. Malaria and iron. *Brit. J. Haematol.* 53(2):181-183.
- Ripert, C. and Coauthors. 1982. Malaria survey in the area of Koza (North Cameroon). *Med. Trop. (Marseille)* 42(6):601-609. In Fr., Engl. Sum.
- Robster, A. N. 1983. On a differential approach to the control of the laboratory diagnosis of malaria. *Med. Parazit. i Parazit. Boleznii* 61(2):78-79. In Rus.
- Sharma, V. P. 1982. Malaria resurgence. *Nature (London)* 300(5889):212.
- Shrestha, S. L. and Parajuli, M. B. 1980. Reappearance of malaria in Terai area of Nepal and incrimination of *A. annularis* Van der Wulp. *J. Nepal Med. Assoc.* 18(1):11-18.

- Stokes, W. S. and Coauthors. 1983. Acute clinical malaria (*Plasmodium inui*) in a cynomolgus monkey (*Macaca fascicularis*). *Lab. Animal Sci.* 33(1):81-85.
- Thurnham, D. I., Oppenheimer, S. J. and Bull, R. 1983. Riboflavin status and malaria in infants in Papua New Guinea. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(3):423-424.
- van Dongen, P. W. J. and van't Hof, M. A. 1983. Sickle cell trait, malaria and anaemia in pregnant Zambian women. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(3):402-404.
- Willcox, M. and Coauthors. 1983. A case-control study in northern Liberia of *Plasmodium falciparum* malaria in haemoglobin S and β -thalassaemia traits. *Ann. Trop. Med. and Parasitol.* 77(3):239-246.
- Wyler, D. J. 1983. Malaria—resurgence, resistance, and research. (First of two parts). *New England J. Med.* 308(15):875-878.
- Wyler, D. J. 1983. Malaria—resurgence, resistance, and research (Second of two parts). *New Engl. J. Med.* 308(16):934-940.
- Zouali, M., Druilhe, P., Gentilini, M. and Eyquem, A. 1982. High titres of anti-T antibodies and other haemagglutinins in human malaria. *Clin. and Expt. Immunol.* 50(1):83-91.
1983. An assay of malaria parasite invasion into human erythrocytes. The effects of chemical and enzymatic modification of erythrocyte membrane components. *Biochimica et Biophysica Acta* 755 (2):263-271.
- Daniel-Ribeiro, C. and Coauthors. 1983. Specificity of auto-antibodies in malaria and the role of polyclonal activation. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):185-188.
- DeGraves, F. J. and Cox, H. W. 1983. Interrelationships of immunoconglutinin, immune complexes, and complement in anaemia, thrombocytopenia and parasitemia of acute and chronic malaria in rats. *J. Parasitol.* 69(2):262-266.
- Deslauriers, R., Ekiel, I., Kroft, T. and Smith, I. C. P. 1982. NMR studies of malaria. 31P nuclear magnetic resonance of blood from mice infected with *Plasmodium berghei*. *Biochimica et Biophysica Acta* 721(4):449-457.
- Ellis, J. and Coauthors. 1983. Cloning and Expression in *E. coli* of the malarial sporozoite surface antigen gene from *Plasmodium knowlesi*. *Nature (London)* 302(5908):536-538.
- Gabriel, J. and Berzins, K. 1983. Specific lysis of *Plasmodium yoelii* infected mouse erythrocytes with antibody and complement. *Clin. and Expt. Immunol.* 52(1):129-134.
- Gilbreath, M. J. and Coauthors. 1983. Characterization of cold reactive lymphocytotoxic antibodies in malaria. *Clin. and Expt. Immunol.* 51(2):232-238.
- Goumard, P., Vu Dac, N., Maurois, P. and Camus, D. 1982. Influence of malaria on a pre-existing antibody response to heterologous antigens. *Ann. d'Immunol. (Paris)* D133(3):313-326.
- Hall, R. and Coauthors. 1983. Antigens of the erythrocytic stages of the human malaria parasite *Plasmodium falciparum* detected by monoclonal antibodies. *Molecular and Biochem. Parasitol.* 7(3):247-265.
- Harte, P. G., Cooke, A. and Playfair, J. H. L. 1983. Specific monoclonal IgM is a potent adjuvant in murine malaria vaccination. *Nature (London)* 302(5905):256-258.
- Jayawardena, A. N. and Coauthors. 1983. Enhanced expression of H-2K and H-2D antigens on reticulocytes infected with *Plasmodium yoelii*. *Nature (London)* 302(5909):623-626.
- Kilejian, A. 1983. Immunological cross-reactivity of the histidine-rich protein of *Plasmodium lophurae* and the knob protein of *Plasmodium falciparum*. *J. Parasitol.* 69(2):257-261.
- Marshall, E. 1983. NYU's malaria vaccine: orphan at birth? *Science* 219(4584):466-467.
- McLean, S. A., Pearson, C. D. and Phillips, R. S. 1982. *Plasmodium chabaudi*: antigenic variation during re-crudescence parasitaemias in mice. *Expt. Parasitol.* 54(3):296-302.
- Mrema, J. E. K. and Coauthors. 1982. *Plasmodium falciparum*: isolation and purification of spontaneously released merozoites by nylon membrane sieves. *Expt. Parasitol.* 54(3):285-295.
- Newmark, P. 1983. What chance a malaria vaccine? *Nature (London)* 302(5908):473.
- Oyeyinka, G. O. 1982. A malaria 'mitogen'-induced depressed immune response to meningococcal polysaccharide vaccine in BALB/c mice. *Immunol. Lett.* 5(6):301-303.

Malaria—Cerebral

- Brasseur, P. and Coauthors. 1983. Impaired cell-mediated immunity in *Plasmodium falciparum*-infected patients with high-parasitemia and cerebral malaria. *Clin. Immunol. and Immunopath.* 27(1):38-50.
- Jeandel, P. and Coauthors. 1982. Recent advances in pathophysiology of cerebral malaria. *Med. Trop. (Marseille)* 42(4):411-415. In Fr., Engl. Sum.
- Looareesuwan, S. and Coauthors. 1983. Do patients with cerebral malaria have cerebral oedema? A computed tomography study. *Lancet* 8322:434-437.
- Warrell, D. A., White, N. J. and Warrell, M. J. 1983. Is dexamethasone deleterious in cerebral malaria? *Brit. Med. J.* 286(6374):1355. [Also letter by Juul-Jensen, B.]

Malaria Control and Eradication

- Cullen, J. R., Chitpraprop, U., Doberstyn, E. B. and Sombatwattanangkul, K. 1983. An epidemiological early warning system for malaria control in northern Thailand. WHO/MAL/83.994, 13 pp.

Malaria—Immunology

- Allison, A. C. and Eugui, E. M. 1982. A radical interpretation of immunity to malaria parasites. *Lancet* 8313:1431-1433.
- Andre, L. J. 1982. Recent advances in malaria immunology. *Med. Trop. (Marseille)* 42(4):393-396. In Fr., Engl. Sum.
- Breuer, W. V., Ginsburg, H. and Cabantchik, Z. I.

1983. An assay of malaria parasite invasion into human erythrocytes. The effects of chemical and enzymatic modification of erythrocyte membrane components. *Biochimica et Biophysica Acta* 755 (2):263-271.
- Daniel-Ribeiro, C. and Coauthors. 1983. Specificity of auto-antibodies in malaria and the role of polyclonal activation. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):185-188.
- DeGraves, F. J. and Cox, H. W. 1983. Interrelationships of immunoconglutinin, immune complexes, and complement in anaemia, thrombocytopenia and parasitemia of acute and chronic malaria in rats. *J. Parasitol.* 69(2):262-266.
- Deslauriers, R., Ekiel, I., Kroft, T. and Smith, I. C. P. 1982. NMR studies of malaria. 31P nuclear magnetic resonance of blood from mice infected with *Plasmodium berghei*. *Biochimica et Biophysica Acta* 721(4):449-457.
- Ellis, J. and Coauthors. 1983. Cloning and Expression in *E. coli* of the malarial sporozoite surface antigen gene from *Plasmodium knowlesi*. *Nature (London)* 302(5908):536-538.
- Gabriel, J. and Berzins, K. 1983. Specific lysis of *Plasmodium yoelii* infected mouse erythrocytes with antibody and complement. *Clin. and Expt. Immunol.* 52(1):129-134.
- Gilbreath, M. J. and Coauthors. 1983. Characterization of cold reactive lymphocytotoxic antibodies in malaria. *Clin. and Expt. Immunol.* 51(2):232-238.
- Goumard, P., Vu Dac, N., Maurois, P. and Camus, D. 1982. Influence of malaria on a pre-existing antibody response to heterologous antigens. *Ann. d'Immunol. (Paris)* D133(3):313-326.
- Hall, R. and Coauthors. 1983. Antigens of the erythrocytic stages of the human malaria parasite *Plasmodium falciparum* detected by monoclonal antibodies. *Molecular and Biochem. Parasitol.* 7(3):247-265.
- Harte, P. G., Cooke, A. and Playfair, J. H. L. 1983. Specific monoclonal IgM is a potent adjuvant in murine malaria vaccination. *Nature (London)* 302(5905):256-258.
- Jayawardena, A. N. and Coauthors. 1983. Enhanced expression of H-2K and H-2D antigens on reticulocytes infected with *Plasmodium yoelii*. *Nature (London)* 302(5909):623-626.
- Kilejian, A. 1983. Immunological cross-reactivity of the histidine-rich protein of *Plasmodium lophurae* and the knob protein of *Plasmodium falciparum*. *J. Parasitol.* 69(2):257-261.
- Marshall, E. 1983. NYU's malaria vaccine: orphan at birth? *Science* 219(4584):466-467.
- McLean, S. A., Pearson, C. D. and Phillips, R. S. 1982. *Plasmodium chabaudi*: antigenic variation during re-crudescence parasitaemias in mice. *Expt. Parasitol.* 54(3):296-302.
- Mrema, J. E. K. and Coauthors. 1982. *Plasmodium falciparum*: isolation and purification of spontaneously released merozoites by nylon membrane sieves. *Expt. Parasitol.* 54(3):285-295.
- Newmark, P. 1983. What chance a malaria vaccine? *Nature (London)* 302(5908):473.
- Oyeyinka, G. O. 1982. A malaria 'mitogen'-induced depressed immune response to meningococcal polysaccharide vaccine in BALB/c mice. *Immunol. Lett.* 5(6):301-303.

- Pearson, C. D., McLean, S. A., Tetley, K. and Phillips, R. S. 1983. Induction of secondary antibody responses to *Plasmodium chabaudi* *in vitro*. Clin. and Expt. Immunol. 52(1):121-128.
- Peltola, H. 1982. A vaccine against human malaria—an utopia? Ann. Clin. Res. 14(5-6):260-266.
- Peltola, H. O., Case, S. E., Perri, S. F. and Siddiqui, W. A. 1982. *Plasmodium falciparum* merozoite vaccination in rhesus monkeys recovered spontaneously from *P. falciparum* infection: a clinical study. Scand. J. Infect. Dis. 14(3):217-224.
- Ramsey, J. M., Beaudoin, R. L., Bawden, M. P. and Espinal, C. A. 1983. Specific identification of *Plasmodium* sporozoites using an indirect fluorescent antibody method. Trans. Roy. Soc. Trop. Med. and Hyg. 77(3):378-381.
- Ray, K. and Coauthors. 1982. Evaluation of cultured *P. falciparum* antigen in malaria indirect immunofluorescence test. J. Commun. Dis. 14(4):239-246.
- Ridgwell, K., Tanner, M. J. A. and Anstee, D. J. 1983. The Wr^b antigen, a receptor for *Plasmodium falciparum* malaria, is located on a helical region of the major membrane sialoglycoprotein of human red blood cells. Biochem. J. 209(1):273-276.
- Ronai, Z. and Sulitzeanu, D. 1983. Anti-red blood cell autoantibodies induced in rat by *Plasmodium berghei* infection bind to a cross-reacting determinant present also in other cell types. Clin. Immunol. and Immunopath. 26(3):327-334.
- Roth, E. F., Jr., Raventos-Suarez, C., Perkins, M. and Nagel, R. L. 1982. Glutathione stability and oxidative stress in *P. falciparum* infection *in vitro*: responses of normal and G6PD deficient cells. Biochem. and Biophys. Res. Commun. 109(2):355-362.
- Santoro, F. and Coauthors. 1983. Structural similarities among the protective antigens of sporozoites from different species of malaria parasites. J. Biol. Chem. 258(5):3341-3345.
- Schofield, L., Saul, A., Myler, P. and Kidson, C. 1982. Antigenic differences among isolates of *Plasmodium falciparum* demonstrated by monoclonal antibodies. Infect. and Immunity 38(3):893-897.
- Tosta, C. E. 1982. Effects of immune and hyperimmune serum on the dynamics of phagocytosis of *Plasmodium berghei*-infected erythrocytes. Revista Inst. Med. Trop. S. Paulo 24(3):140-147.
- Vittal, M., Bhave, M. R., Shinde, P. N. and Deshpande, S. V. 1982. A note on an interesting case of treatment of *Plasmodium vivax* curative therapy relapses in a four year old child from Aurangabad, Maharashtra State, India. Indian J. Med. Sciences 36(3):64-66.
- Malaria—Parasites**
- Aikawa, M. and Rabbege, J. R. 1983. Electron microscopy of knobs in *Plasmodium falciparum*-infected erythrocytes. J. Parasitol. 69(2):435-437.
- Aissi, E., Charet, P., Bouquelet, S. and Biguet, J. 1983. Endoprotease in *Plasmodium yoelii nigeriensis*. Compar. Biochem. and Physiol. 74B(3):559-566.
- Allred, D. R., Sterling, C. R. and Morse, P. D., II. 1983. Increased fluidity of *Plasmodium berghei*-infected mouse red blood cell membranes detected by electron spin resonance spectroscopy. Molecular and Biochem. Parasitol. 7(1):27-39. [fluitidy in original.]
- Boyle, D. B., March, J. C., Newbold, C. I. and Brown, K. N. 1983. Parasite polypeptides lost during schizogony and erythrocyte invasion by the malaria parasites, *Plasmodium chabaudi* and *Plasmodium knowlesi*. Molecular and Biochem. Parasitol. 7(1):9-18.
- Brown, G. V., Anders, R. F. and Knowles, G. 1983. Differential effect of immunoglobulin on the *in vitro* growth of several isolates of *Plasmodium falciparum*. Infect. and Immunity 39(3):1228-1235.
- Cabantchik, Z. I., Kutner, S., Krugliak, M. and Ginsburg, H. 1983. Anion transport inhibitors as suppressors of *Plasmodium falciparum* growth in *in vitro* cultures. Molecular Pharmacol. 23(1):92-99.
- Chadée, D. D. and Coauthors. 1983. A case of imported *Plasmodium ovale* infection in Trinidad, West Indies. West Indian Med. J. 32:56-58.
- Christoforidis, G. J. and Miller, H. 1983. A simplified method for cryopreservation of *Plasmodium falciparum* from continuous *in vitro* cultures. Ann. Trop. Med. and Parasitol. 77(2):123-126.
- Chulay, J. D., Haynes, J. D. and Diggs, C. L. 1983. *Plasmodium falciparum*: assessment of *in vitro* growth by [³H] hypoxanthine incorporation. Expt. Parasitol. 55(1):138-146.
- Cox, F. E. G. 1983. How red blood cells and malaria parasites recognize each other. Nature (London) 301(5902):654.
- Cox, F. E. G. 1983. Oxidant killing of the malaria parasites. Nature (London) 302(5903):19.
- Da Silveira, J. F. and Mercereau-Puijalon, O. 1983. *Plasmodium chabaudi* antigens synthesized in an mRNA-dependent cell-free translation system. Molecular and Biochem. Parasitol. 7(2):159-172.
- Datry, A., Lecso, G., Richard-Lenoir, D. and Kombila, M. 1982. Fast dyeing of plasmodia and microfilariae with water-soluble dyes. Med. Trop. (Marseille) 42(6):673-676. In Fr., Engl. Sum.
- Druilhe, P. and Coauthors. 1982. Exo-erythrocytic schizogony of *Plasmodium falciparum* in the monkey *Cebus apella*. Compt. Rend. Acad. Sci. Paris Ser. III, 294(11):511-513. In Fr., Engl. Sum.
- Druilhe, P. and Gentilini, M. 1982. *In vitro* cultivation of *Plasmodium falciparum*: applications and limits—methodology. Med. Trop. (Marseille) 42(4):437-462. In Fr., Engl. Sum.
- Espinol T., C., Moreno, E., Guerra, P. and de la Vega, P. 1982. Aislamiento y caracterización de cepas colombianas de *Plasmodium falciparum*. Biomedica 2(3):118-128. Engl. Sum.
- Gardner, A. L., MuyQui, B. and Krotoski, W. A. 1983. Timing of stages and changes in numbers of multiply-infected erythrocytes during the asexual cycle of *Plasmodium cynomolgi bastianelli*. Amer. J. Trop. Med. and Hyg. 32(3):468-472.
- Ginsburg, H. and Krugliak, M. 1983. Uptake of L-tryptophan by erythrocytes infected with malaria parasites (*Plasmodium falciparum*). Biochimica et Biophysica Acta 729(1):97-103.
- Golenser, J. and Coauthors. 1983. Inhibitory effect of a fava bean component on the *in vitro* development of *Plasmodium falciparum* in normal and glucose-6-phosphate dehydrogenase deficient erythrocytes. Blood 61(3):507-510.

- Gruenberg, J. and Sherman, I. W. 1983. Isolation and characterization of the plasma membrane of human erythrocytes infected with the malarial parasite *Plasmodium falciparum*. Proc. Natl. Acad. Sci. USA 80(4):1087-1091.
- Guo, S. C., Chin, W. and Collins, W. E. 1983. The in vitro cultivation of *Plasmodium gonderi*. Amer. J. Trop. Med. and Hyg. 32(3):473-474.
- Gysin, J. and Fandeur, T. 1983. *Saimiri sciureus* (karyotype 14-7): an alternative experimental model of *Plasmodium falciparum* infection. Amer. J. Trop. Med. and Hyg. 32(3):461-467.
- Hadley, T. and Coauthors. 1983. Resistance of Melanesian elliptocytes (ovalocytes) to invasion by *Plasmodium knowlesi* and *Plasmodium falciparum* malaria parasites in vitro. J. Clin. Investig. 71(3):780-782.
- Heidrich, H. G., Danforth, H. D., Leef, J. L. and Beaudoin, R. L. 1983. Free-flow electrophoretic separation of *Plasmodium berghei* sporozoites. J. Parasitol. 69(2):360-367.
- Hollingdale, M. R., Leland, P., Leef, J. L. and Beaudoin, R. L. 1983. The influence of cell type and culture medium on the in vitro cultivation of exoerythrocytic stages of *Plasmodium berghei*. J. Parasitol. 69(2):346-352.
- Homewood, C. A. and Neame, K. D. 1983. Conversion of glucose to lactate by intraerythrocytic *Plasmodium berghei*. Ann. Trop. Med. and Parasitol. 77(2):127-129.
- Jaremin, B., Felczak-Korzybska, I. and Myjak, P. 1982. Przypadek methemoglobinemii i aganulocytozy w przebiegu leczenia malarii (*Pl. ovale*) arechiny i primachina. Wiad. Lekarskie 35(9):591-594. Engl. Sum.
- Jensen, J. B., Boland, M. T., Hayes, M. and Akood, M. A. 1982. *Plasmodium falciparum*: rapid assay for in vitro inhibition due to human serum from residents of malarious areas. Expt. Parasitol. 54(3):416-424.
- Jungery, M., Pasvol, G., Newbold, C. I. and Weatherall, D. J. 1983. A lectin-like receptor is involved in invasion of erythrocytes by *Plasmodium falciparum*. Proc. Natl. Acad. Sci. USA 80(4):1018-1022.
- Krungkrai, J. and Yuthavong, Y. 1983. Enhanced Ca^{2+} uptake by mouse erythrocytes in malarial (*Plasmodium berghei*) infection. Molecular and Biochem. Parasitol. 7(3):227-235.
- Krungkrai, J. and Yuthavong, Y. 1983. Reduction of Ca^{2+} uptake induced by ionophore A23187 of red cells from malaria (*Plasmodium berghei*)-infected mice. Cell Biol. Internat. Rpts. 7(3):237-244.
- Kutner, S., Ginsburg, H. and Cabantchik, Z. I. 1983. Permeability changes in malaria (*Plasmodium falciparum*) infected human red blood cell membranes. J. Cellular Physiol. 114(2):245-251.
- Lainson, F. A. 1983. Observations on the morphology and electrophoretic variation of enzymes of the rodent malaria parasites of Cameroon, *Plasmodium yoelii*, *P. chabaudi* and *P. vinckei*. Parasitology 86(2):221-229.
- Meis, J. F. G. M. and Coauthors. 1983. Malaria parasites—discovery of the early liver form. Nature (London) 302(5907):424-426.
- Meis, J. F. G. M., Verhave, J. P., Jap, P. H. K. and Meuwissen, J. H. E. T. 1983. An ultrastructural study on the role of Kupffer cells in the process of infection by *Plasmodium berghei* sporozoites in rats. Parasitology 86(2):231-242.
- Nillni, E. A. and Spira, D. T. 1982. Characterization of *Plasmodium berghei* antigens inducing blast transformation in immune rat lymphocytes. Z. f. Parasitenkunde 68(3):239-247.
- Nivet, C., Guillotte, M. and Pereira da Silva, L. 1983. *Plasmodium falciparum*: one-step growth in a semi-defined medium and the stimulatory effect of human seric lipoproteins and liposomes. Expt. Parasitol. 55(1):147-151.
- Okolie, E. E. and Onyezili, N. I. 1983. ADP-ribosyltransferase in *Plasmodium* (malaria parasites). Biochem. J. 209(3):687-693.
- Olson, J. A. and Kilejian, A. 1982. Involvement of spectrin and ATP in infection of resealed erythrocyte ghosts by the human malarial parasite, *Plasmodium falciparum*. J. Cell Biol. 95(3):757-762.
- Parashar, A., Sehgal, S., Naik, S. and Aikat, B. K. 1983. Role of macrophage-processed antigen in a *Plasmodium berghei* model. Parasite Immunol. 5(2):173-181.
- Petit, G., Camus, D., Dei-Cas, E. and Landau, I. 1982. Inhibition immédiate de l'inféctivité des gaméocytes de *Plasmodium yoelii nigeriensis* par le serum de rongeurs infectés depuis 5 jours. Ann. de Parasitol. Humaine et Compar. 57(5):507-508.
- Pfaller, M. A., Krogstad, D. J. and Parquette, A. R. 1982. *Plasmodium falciparum*: stage-specific lactate production in synchronized cultures. Expt. Parasitol. 54(3):391-396.
- Poels, L. G., Van Niekerk, C. C., Joosten, L. and Schalkwijk, J. 1983. Composition and kinetics of immune complexes in mice infected with *Plasmodium berghei*. Contrib. Microbiol. Immunol. 7:52-62.
- Rathod, P. K. and Reyes, P. 1983. Orotidylate-metabolizing enzymes of the human malarial parasite, *Plasmodium falciparum*, differ from host cell enzymes. J. Biol. Chem. 258(5):2852-2855.
- Reber-Liske, R. 1983. A labour-saving method for the in vitro culture of *Plasmodium falciparum*. Acta Tropica 40(1):39-43.
- Renapurkar, D. M. and Coauthors. 1983. The continuous in vitro cultivation of *Plasmodium vivax*. IRCS J. Med. Sci.: Biochem. 11(1):7-8.
- Rönnblom, L. and Coauthors. 1983. *Plasmodium falciparum* parasites induce interferon production in human peripheral blood 'null' cells in vitro. Parasite Immunol. 5(2):165-172.
- Schimandle, C. M. and Sherman, I. W. 1983. Characterization of adenosine deaminase from the malarial parasite, *Plasmodium lophurae*, and its host cell, the duckling erythrocyte. Biochem. Pharmacol. 32(1):115-122.
- Sherman, I. W. and Tanigoshi, L. 1983. Stage-specific proteins of the avian malaria *Plasmodium lophurae*. Parasitology 86(2):211-220.
- Sorensen, S. C. and Dworzack, D. L. 1982. *Plasmodium vivax*-induced granulocytopenia: a case report. Nebraska Med. J. 67(10):279-281.
- Tungpradabkul, S., Panyim, S., Wilairat, P. and Yuthavong, Y. 1983. Analysis of DNA from various species and strains of malaria parasites by restriction endonuclease fingerprinting. Compar. Biochem. and Physiol. 74B(3):481-485.

- Turner, D. P. 1983. Effect of trypsin and neuraminidase on the infectivity of *Plasmodium gallinaceum* sporozoites. Ann. Trop. Med. and Parasitol. 77(2):119-122.
- Vermeulen, A. N. and Coauthors. 1983. Isolation and characterization of membrane proteins of *Plasmodium berghei* sporozoites. Molecular and Biochem. Parasitol. 7(3):197-207.
- Wallach, M. and Boeke, J. D. 1983. *In vitro* translation and characterization of a unique histidine-rich protein mRNA in the avian malaria parasite *Plasmodium lophurae*. Proc. Natl. Acad. Sci. USA 80(7):1867-1871.
- Weiss, L. 1983. Hematopoietic tissue in malaria: facilitation of erythrocytic recycling by bone marrow in *Plasmodium berghei*-infected mice. J. Parasitol. 69(2):307-318.
- Malaria—Therapeutics and Antimalarials**
- Back, D. J. and Coauthors. 1983. Inhibition of drug metabolism by the antimalarial drugs chloroquine and primaquine in the rat. Biochem. Pharmacol. 32(2):257-263.
- Barabe, P., Touze, J. E. and Jeandel, P. 1982. Qingshaosu and its by-products. Med. Trop. (Marseille) 42(4):433-436. In Fr., Engl. Sum.
- Bergqvist, Y. and Domeij-Nyberg, B. 1983. Distribution of chloroquine and its metabolite desethyl-chloroquine in human blood cells and its implication for the quantitative determination of these compounds in serum and plasma. J. Chromatog. 272(1):137-148.
- Boulos, M. 1982. Tratamento da Malaria. Revista Paul. de Med. 99(1):29-30.
- Bozdech, V. and Coauthors. 1982. Difficulties occurring during chloroquine therapy. Casopis Lek. Cesk. 121(40):1233-1236. In Cesk., Engl. Sum.
- Chinarro, S. and Coauthors. 1983. Studies on *in vitro* formation of complexes between porphyrins and chloroquine. Biochem. Internat. 6(4):565-568.
- Chongsuphajaisiddhi, T. Sabcharoen, A. and Attanath, P. 1981. *In vivo* and *in vitro* sensitivity of falciparum malaria to quinine in Thai children. Ann. Trop. Paediatrics 1(1):21-26.
- Cook, I. F. and McGregor, J. W. 1982. Inadequate prophylaxis of *Plasmodium falciparum* malaria with once-a-week Maloprim therapy. Med. J. Australia 2(12):563-564.
- Danis, M. and Coauthors. 1982. Mefloquine: comparative therapy of *Plasmodium falciparum*, *Plasmodium vivax* and *Plasmodium ovale* malaria. Med. Trop. (Marseille) 42(4):427-432. In Fr., Engl. Sum.
- Dann, V. O. and Coauthors. 1982. Gegen malaria wirksame 6-Aminochinoline. XIV. 6-(4-Diethylamino-1-methylbutylamino)-4-methoxy-2-methyl-und -2,4-dimethylchinoline mit Variationen der Substituenten in 5- und 8-Stellung). Arzneimittel-Forsch. 32(9):1016-1023. Engl. Sum.
- Dixon, K. E. and Coauthors. 1983. Treatment of an acute case of *Plasmodium malariae* malaria with mefloquine. Amer. J. Trop. Med. and Hyg. 32(3):631-632.
- Fogh, S. 1982. Malariaprofilakse for danske troperejende. Nord. Med. 97(10):246-247.
- Friberg, L. and Lund, B. 1982. Chloroquine intoxication. Review and report of a case of acute intoxication. Ugeskrift for Laeger 144(10):704-706. In Dan., Engl. Sum.
- Friman, G. and Coauthors. 1983. Agranulocytosis associated with malaria prophylaxis with Maloprim. Brit. Med. J. 286(6373):1244-1245.
- Frisk-Holmberg, M., Bergqvist, Y. and Englund, U. 1983. Chloroquine intoxication. Brit. J. Clin. Pharmacol. 15(4):502-503.
- Grab, B. and Wernsdorfer, W. H. 1983. Evaluation of *in vitro* tests for drug sensitivity in *Plasmodium falciparum*: probit analysis of logdose/response test from 3-8 points assay. WHO/MAL/83.990, 18 pp.
- Gustafsson, L. L. and Coauthors. 1983. Disposition of chloroquine in man after single intravenous and oral doses. Brit. J. Clin. Pharmacol. 15(4):471-479.
- Gustafsson, L. L. and Coauthors. 1983. Pitfalls in the measurement of chloroquine concentrations. Lancet 8316:126.
- Hart, W. A. 1983. Chemoprophylaxis of malaria in Africa. Brit. Med. J. 286(6369):978-979.
- Helle, I. 1982. The confusion concerning antimalarials needs to be dispelled. Nord. Med. 97(10):248-250. In Swed.
- Hornstein, O. P. and Ruprecht, K. W. 1982. Fansidar-induced Stevens-Johnson syndrome. New England J. Med. 307(24):1529-1530.
- Hostetler, K. Y. and Richman, D. D. 1982. Studies on the mechanism of phospholipid storage induced by amantadine and chloroquine in Madin Darby canine kidney cells. Biochem. Pharmacol. 31(23):3795-3799.
- Jaiyeoba, K. T. and Oladiran, O. O. 1983. The effect of lubricants on the properties of chloroquine phosphate tablets. Drug Development and Industrial Pharmacy 9(1-2):267-283.
- Koch-Weser, J., Hodel, C., Leimer, R. and Styk, S. 1982. Adverse reactions to pyrimethamine/sulfadoxine. Lancet 8313:1459.
- Königk, E. and Putfarken, B. 1983. Inhibition of ornithine decarboxylase of *in vitro* cultured *Plasmodium falciparum* by chloroquine. Tropenmed. u. Parasitol. 34(1):1-3.
- Lapierre, J. and Coauthors. 1983. Evaluation of experimental use of mefloquine for chemoprophylaxis of malaria in Democratic Kampuchea (Kampuchean-Thai frontier region). WHO/MAL/83.993, 7 pp.
- Leake, D. S., Heald, B. and Peters, T. J. 1983. Subcellular fractionation of arterial smooth muscle cells laden with lipid following incubation with low density lipoproteins and chloroquine. Expt. and Molecular Path. 38(1):82-99.
- Le Bras, J. and Deloron, P. 1983. *In vitro* study of drug sensitivity of *Plasmodium falciparum*: evaluation of a new semi-micro test. Amer. J. Trop. Med. and Hyg. 32(3):447-451.
- Lewin, P. K. 1982. Quinacrine skin discoloration is associated with fluorescence of 'Y' chromosome in male cells and malarial parasites in malaria. Pediatrics 70(6):1015.

- Lot, T. Y. and Bennett, T. 1982. Comparison of the effects of chloroquine quinacrine and quinidine on automatic neuroeffector mechanisms. *Med. Biol.* (Finland) 60(6):307-315.
- Luthman, H. and Magnusson, G. 1983. High efficiency polyoma DNA transfection of chloroquine treated cells. *Nucleic Acids Research* 11(5):1295-1308.
- McChesney, J. D. and Sarangan, S. 1983. Synthesis of site specifically deuterated primaquines I. Quinoline ring deuterated primaquines. *J. Labelled Compounds and Radiopharmaceut.* 20(1):53-62.
- McElnay, J. C. and Coauthors. 1982. The effect of magnesium trisilicate and kaolin on the *in vivo* absorption of chloroquine. *J. Trop. Med. and Hyg.* 85(4):159-163.
- Moodie, P. M. 1982. Chemoprophylaxis and chemotherapy of malaria. *Med. J. Australia* 2(12):549.
- Moore, H. P., Gumbiner, B. and Kelly, R. B. 1983. Chloroquine diverts ACTH from a regulated to a constitutive secretory pathway in AtT-20 cells. *Nature* (London) 302(5907):434-436.
- Ngaha, E. O. and Akanji, M. A. 1982. Effect of chloroquine on the stability of rat kidney lysosomes *in vivo* and *in vitro*. *Compar. Biochem. and Physiol.* 73C(1):109-113.
- Nguyen-Dinh, P., Magloire, R. and Chin, W. 1983. A simple field kit for the determination of drug susceptibility in *Plasmodium falciparum*. *Amer. J. Trop. Med. and Hyg.* 32(3):452-455.
- Noeypatimanond, S. and Coauthors. 1983. Treatment of *Plasmodium falciparum* malaria with a combination of amodiaquine and tetracycline in Central Thailand. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(3):338-340.
- Olsen, V. V. 1983. Why not proguanil in malaria prophylaxis? *Lancet* 8325:649.
- Overbosch, D., van der Meer, J. W. M., Mattie, H. and van der Kaaij, H. J. 1983. Quinine containing drinks may hamper diagnosis of malaria. *Lancet* 8323:539-540.
- Pettersson, T. 1982. Malaria prophylax for finlandska utlandsresenarer. *Nord. Med.* 97(10):248.
- Powell, R. D. 1983. Malaria chemoprophylaxis. *J. Amer. Med. Assoc.* 249(3):410.
- Prasad, R. N., Garg, S. K., Mahajan, R. C. and Ganguly, N. K. 1983. Spectrophotometric assay of primaquine in plasma. *Indian J. Med. Res.* 77(Mar):388-390.
- Public Health Laboratory Service Malaria Reference Laboratory. 1983. Malaria prophylaxis. *Brit. Med. J.* 286(6367):787-789.
- Puri, S. K. and Dutta, G. P. 1982. Antibiotics in the chemotherapy of malaria. *Progress in Drug Res.* 26:167-205.
- Reilly, Q. 1982. Danger of haemolysis from primaquine use. *Papua New Guinea Med. J.* 25(3):194.
- Rombo, L. 1982. Which antimalarials should we choose? *Nord. Med.* 97(10):242-245.
- Rombo, L. and Coauthors. 1983. Proguanil for malaria prophylaxis. *Lancet* 8331:997.
- Ruzicka, T. and Printz, M. P. 1982. Arachidonic acid metabolism in guinea pig skin: effects of chloroquine. *Agents and Actions* 12(4):527-529.
- Salako, L. A. and Adelusi, S. A. 1983. Plasma, whole blood and red blood cell kinetics of chloroquine after oral and parenteral administration in rabbits. *Arch. Internat. Pharmacodyn. (Ghent)* 261(I):4-15.
- Scovill, J. P., Klayman, D. L. and Franchino, C. F. 1982. 2-acetylpyridine thiosemicarbazones. 4. Complexes with transition metals as antimalarial and antileukemic agents. *J. Medicinal Chem.* 25(10):1261-1264.
- Sofola, O. A. 1983. The effects of chloroquine on the electrocardiogram and heart rate in anaesthetized dogs. *Clin. Physiol.* 3(1):75-82.
- Tan-ariya, P. and Brockelman, C. R. 1983. Continuous cultivation and improved drug responsiveness of *Plasmodium falciparum* in *p*-aminobenzoic acid-deficient medium. *J. Parasitol.* 69(2):353-359.
- Tulpule, A. and Krishnaswamy, K. 1983. Chloroquine kinetics in the undernourished. *Eur. J. Clin. Pharmacol.* 24(2):273-276.
- UNDP/World Bank/WHO Update. 1983. Development of mefloquine as an antimalarial drug. *Bul. WHO* 61(2):169-178.
- Walker, E. and Williams, G. 1983. ABC of healthy travel. *Malaria prophylaxis*. *Brit. Med. J.* 286(6367):781-783.
- Walker, O. and Coauthors. 1983. Characterization of chloroquine plasma protein binding in man. *Brit. J. Clin. Pharmacol.* 15(3):375-377.
- Warhurst, D. C., Robinson, B. L. and Peters, W. 1983. The blood schizontocidal action of erythromycin against *Plasmodium knowlesi* infections in *Macaca mulatta*. *Ann. Trop. Med. and Parasitol.* 77(3):231-237.
- White, N. J., Looareesuwan, S. and Silamut, K. 1983. Red cell quinine concentrations in falciparum malaria. *Amer. J. Trop. Med. and Hyg.* 32(3):456-460.
- White, N. J., Looareesuwan, S. and Warrell, D. A. 1983. Quinine and quinidine: a comparison of EKG effects during the treatment of malaria. *J. Cardiovasc. Pharmacol.* 5(2):173-175.
- Whitfield, D. 1982. Presumptive fatality due to pyrimethamine-sulfadoxine. *Lancet* 8310:1272.
- Malaria—Antimalarials—Resistance**
- Al Tawil, N. and Akood, M. A. 1983. Response of falciparum malaria to a standard regimen of chloroquine in Khartoum Province, Sudan. *WHO/MAL/83.991*, 8 pp.
- Boudreau, E. F., Webster, H. K., Pavanand, K. and Thosingha, L. 1982. Type II mefloquine resistance in Thailand. *Lancet* 8311:1335.
- Bowden, D. K. and Coauthors. 1982. Chloroquine-resistant *Plasmodium falciparum* malaria in Vanuatu. *Med. J. Australia* 2(12):561-562.
- Charmot, G. and Rodhain, F. 1982. *Plasmodium falciparum* chemo-resistance. Analysis of its factors of apparition and extension. *Med. Trop. (Marseille)* 42(4):417-426. In Fr., Engl. Sum.
- Chulay, J. D. and Coauthors. 1983. Chloroquine-resistant falciparum malaria. *New Engl. J. Med.* 308(13):781.

- DeCock, K. M., Armitage, J., Markey, A. C. and Draper, C. D. 1983. Possible case of RIII chloroquine-resistant malaria from East Africa. *Lancet* 8327:773-774.
- Duriyananda, D. and Noeypatimanond, S. 1982. Quinine-resistant falciparum malaria: case report. *J. Med. Assoc. Thailand* 65(7):395-398.
- Esposito, R., Orlando, G. and Crocchiolo, P. 1983. *In vitro* confirmation of clinical resistance of *Plasmodium falciparum* to chloroquine in Kenya. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(3):421.
- Harinasuta, T., Bunnag, D. and Wernsdorfer, W. H. 1983. A phase II clinical trial of mefloquine in patients with chloroquine-resistant falciparum malaria in Thailand. *Bul. WHO* 61(2):299-305.
- Heumann, A. M. and Coauthors. 1983. Inheritance of post-vaccinal resistance against *Plasmodium berghei* infection in mice. *Parasite Immunol.* 5(2):143-150.
- Hung, J. and Werbel, L. M. 1983. Camoform analogs as potential agents against mefloquine resistant malaria. *European J. Medicinal Chem.* 18(1):61-66.
- Kofi Ekue, J. M., Ulrich, A. M. and Njelesani, E. K. 1983. *Plasmodium* malaria resistant to chloroquine in a Zambian living in Zambia. *Brit. Med. J.* 286(6374):1315-1316.
- Lambros, C. and Coauthors. 1982. In vitro assessment of 2-acetylpyridine thiosemicarbazones against chloroquine-resistant *Plasmodium falciparum*. *Antimicrob. Agents and Chemother.* 22(6):981-984.
- Markus, M. B. 1983. Current therapy for *Plasmodium falciparum* malaria in Africa. *South Afr. Med. J.* 63(16):597-598.
- Onori, E. 1981. Resistenza di *Plasmodium falciparum* agli antimalarici: implicazioni pratiche e prospettive di controllo. *Parassitologia* 23(1-3):31-62. In Ital., Engl. Sum.
- Swift, P. G. F., Frost, G. J. and Airlie, K. 1983. Mefloquine resistance of falciparum malaria from Tanzania enhanced by treatment. *Lancet* 8327:774-776.
- Thaithong, S., Beale, G. H. and Chutmongkonkul, M. 1983. Susceptibility of *Plasmodium falciparum* to five drugs: an *in vitro* study of isolates mainly from Thailand. *Trans. Roy. Soc. Trop. Med. and Hyg.* 77(2):228-231.
- Weniger, B. G. and Coauthors. 1982. High-level chloroquine resistance of *Plasmodium falciparum* malaria acquired in Kenya. *New England J. Med.* 307(25):1560-1562.
- Malaria—Transfusion**
- Deroiff, P. and Coauthors. 1982. Depistage des donneurs de sang susceptibles de transmettre *P. falciparum*. Utilisation de préparations d'antigènes homologues prêts à l'emploi. *Rev. Fr. Transfus. Immunohém.* 25(4):403-411. Engl. Sum.
- Kramer, S. L., Campbell, C. C. and Moncrieff, R. E. 1983. Fulminant *Plasmodium falciparum* infection treated with exchange blood transfusion. *J. Amer. Med. Assoc.* 249(2):244-245.
- Soulier, J. P. and Coauthors. 1982. Anticorps monoclonaux anti-*Plasmodium falciparum*. Resultats préliminaires. *Rev. Fr. Transfus. Immunohém.* 25(4):373-381. Engl. Sum.
- Talonu, T. and Sugoho, K. 1982. Malaria parasites in blood donated by healthy subjects in PNG. *Papua New Guinea Med. J.* 25(3):195-196.
- ALLERGIC REACTIONS**
- Hidano, A., Kawakami, M. and Yago, A. 1982. Hypersensitivity to mosquito bite and malignant histiocytosis. *Jap. J. Exptl. Med.* 52(6):303-306.
- LIGHT AND OTHER TRAP STUDIES**
- Holub, R. E. 1983. Modification of New Jersey light trap for multiple sample collection. *Mosquito News* 43(2):241-242.
- LITERATURE REFERENCES AND REVIEWS**
- Davies, B. R., Davies, T., Frazer, J. and Chutter, F. M. 1982. A bibliography of African inland water invertebrates (to 1980). *South Afr. Natl. Sci. Programmes Rpt. No. 58*, 418 pp. [Mosquitoes included in 30 pages.]
- Pan American Health Organization. 1982. Catalog of PAHO Publications 1975-1982 24 pp.
- Sollers-Riedel, H. 1983. Literature references to mosquitoes and mosquito-borne diseases. 1983—Part II. *Mosquito News* 43(2):251-267.
- World Health Organization. 1983. Publications catalogue 1947-1979. Supplement 1980-1983. 83 pp.
- BIOGRAPHY AND HISTORY**
- Burgess, L. 1982. John James Reid McLintock 1912-1982. *Ent. Soc. Canada Bul.* 14(4):144.
- Granett, P. 1983. Joseph M. Ginsburg. *Bul. Ent. Soc. Amer.* 29(2):75-76.
- Hubálek, Z. 1983. In memoriam of MUDr. Vojtech Bárdos, D. Sc. *Folia Parasitol.* 30(2):102.
- Trager, W. 1983. R. Barclay McGhee 1918-1982. *J. Parasitol.* 69(2):416.
- SUBJECTS NOT COVERED BY OTHER HEADINGS**
- Mulhern, T. D. 1983. Do mosquitoes feed on trout? *Mosquito News* 43(2):235-236. [Also letter by C. H. Murray and note by W. W. Wirth.]

Olson, J. K. 1983. 1983 Presidential acceptance speech. *Mosquito News* 43(2):126-128.

BOOKLETS AND REPORTS

South Cook County Mosquito Abatement District. 1983. Twenty-eighth annual report—1982, 4 pp., Harvey, Illinois.

BOOKS

- Encinas Grandes, A. 1982. *Taxonomia y biología de los mosquitos del área Salmantina (Diptera, Culicidae)*. 437 pp., Salamanca.
- Muirhead-Thomson, R. C. 1982. *Behaviour patterns of blood-sucking flies*, 224 pp., Oxford, Pergamon Press. [Mosquitoes included. Original has the incorrect initials for author. They are shown as E. C.]
- Youdeowei, A. and Service, M. W. 1983. *Pest and vector management in the tropics*. 399 pp., Harlow, England. Longman Group Ltd. [Mosquitoes included.]