

LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

1978—Part IV

Helen Sollers-Riedel¹

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

ADULTICIDES, LARVICIDES AND OVICIDES

- Barlow, F. and Coauthors. 1977. Some laboratory investigations relevant to the possible use of new pyrethroids in control of mosquitoes and tsetse flies. *Pesticide Sci.* 8(3):291-300.
- Busvine, J. R. 1978. Current problems in the control of mosquitoes. *Nature (London)* 273(5664):604-607.
- Cardarelli, N. F. 1978. Controlled release organotins as mosquito larvicides. *Mosquito News* 38(3):328-333.
- Darwazeh, H. A., Mulla, M. S. and Williams, B. T. 1978. Synthetic pyrethroids for the control of resistant mosquitoes in irrigated pastures. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:121-122.
- Fontaine, R. E. and Coauthors. 1978. Evaluation of fenitrothion for the control of malaria. *WHO Bul.* 56(3):445-452.
- Holmstead, R. L., Casida, J. E., Ruzo, L. O. and Fullmer, D. G. 1978. Pyrethroid photodecomposition: permethrin. *J. Agr. and Food Chem.* 26(3):590-595.
- Ismail, I. A. H., Phinichpongse, S. and Boonrasri, P. 1978. Responses of *Anopheles minimus* to DDT residual spraying in a cleared forested foothill area in central Thailand. *Acta Tropica* 35(1):69-82.
- Johnson, C. R. and Gieke, P. A. 1978. Larval mosquito control in pipelines with a modified non-thermal aerosol generator. *Mosquito News* 38(3):420-421.
- Jundt, S. 1976. Lutte contre les moustiques. *Developpement et Sante (Paris)* 1:11-15.
- Jurjevskis, I. and Stiles, A. R. 1978. Summary review of larvicides tested at stage IV/V field trials 1964-1977. *WHO/VBC/78.688*, 15 pp.
- Krivtsova, E. N., Rettikh, F. F., Sokolova, L. V. and Sokolov, V. N. 1978. The effect of actellic on mosquito *Anopheles maculipennis messeae* larvae in the Moscow region. *Med. Parazit.* i Parazit. Bolezni 47(3):52-57. In Rus., Engl. Sum.
- Mulla, M. S. and Darwazeh, H. A. 1978. Effectiveness and residual activity of polymer formulations of mosquito larvicides. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:123-125.
- Mulla, M. S., Darwazeh, H. A. and Dhillon, M. S. 1978. Mosquito control investigations in an urban cemetery. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:134-136.
- Meisch, M. V. 1978. Ultralow volume aerial application of insecticides for mosquito control in Arkansas ricefield communities. *Mosquito News* 38(3):343-346.
- Pfunter, A. R. 1978. The development and control of *Culex quinquefasciatus* Say and *Culex peus* Speiser in urban catch basins. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:126-129.
- Public Health Station of Chinwangtao; Public Health Station of Peidaiko Section, Chinwangtao Tientsin Insecticide Factory; Commission of Science and Technology of Chinwangtao. 1978. Studies on the residue determination of Abate and its usage in mosquito larval control. *Acta Ent. Sinica* 21(1):49-54. In Chin., Engl. Sum.
- Schaefer, C. H., Dupras, E. F., Jr., Mulligan, F. S., III. 1978. Residues of Pydrin® in pasture water, soil and vegetation following multiple aerial applications. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:112-114.
- Schechter, M. S. and Coauthors. 1976. Gas propelled aerosols and micronized dusts for control of insects in aircraft and vans. *Israel J. Ent.* XI;133-145. [Aedes aegypti included.]
- Service, M. W., Joshi, G. P. and Pradhan, G. D. 1978. A survey of *Anopheles gambiae* (species A) and *An. arabiensis* (species B) of the *An. gambiae* Giles complex in the Kisumu area of Kenya following insecticidal spraying with OMS-43 (fenitrothion). *Ann. Trop. Med. and Parasitol.* 72(4):377-386.
- Stoner, A., Wilson, W. T., Rhodes, H. A. and Sackett, R. R. 1977. Mosquito abatement with Baytex did not kill honey bee colonies. *Amer. Bee J.* 117(9):566-567, 582.
- Tăcu, V., Giurcă, I. and Petrescu, S. 1977. The

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

- larvicide effect of some local and foreign chemical products (insecticides and detergents) on the *Anopheles labranchiae atroparvus* and *Culex pipiens autogenicus*. Arch. Roumaines Path. Expt. et Microbiol. 36(2):181-192. Fr. and Rus. Sum.
- Thevasagayam, E. S., Siong, Y. and Khoon, C. C. 1978. Deterioration of thatch roofs after house spraying with DDT in a malaria eradication programme in Peninsular Malaysia and the prevention of such deterioration by the use of malathion. WHO/MAL/78.899, WHO/VBC/78.790. 9 pp.
- Wellinga, K., Grosscurt, A. C. and van Hes, R. 1977. 1-phenylcarbamoyl-2-pyrazolines: a new class of insecticides. I. Synthesis and insecticidal properties of 3-phenyl-1-phenyl-carbamoyl-2-pyrazolines. J. Agr. and Food Chem. 25(5):987-992. [Aedes aegypti included.]
- ### GROWTH REGULATORS
- Barber, J. T., Ellgaard, E. G. and Castagno, R. J. 1978. Crustacean molting in the presence of Altosid® SR-10. Mosquito News 38(3):417-418.
- Lucas, R. E. 1978. Altosid®: a unique tool for use in an integrated mosquito control program. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:118-119.
- Pridantseva, E. A. and Coauthors. 1978. The effect of inhibitors of insect development of *Aedes aegypti* L. mosquitoes and *Rhodnius prolixus* Stål bugs. Communication II. The juvenile activity of methopren and structurally similar compounds. Med. Parazit. i Parazit. Bolezni 47(3):65-68. In Russ., Engl. Sum.
- Schoeppner, R. F. 1978. The effectiveness of Altosid® briquets in controlling *Culex pipiens* in catch basins. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:115-117.
- Sharma, V. P., Batra, C. P. and Brooks, G. D. 1977. Control of *Culex pipiens fatigans* Wied. in drains using a growth regulating compound, OMS 1390. J. Commun. Dis. 9(2):136-138.
- Zurflueh, R. C. 1976. Phenylethers as insect growth regulators: laboratory and field experiments. In Juvenile Hormones (edited by Gilbert, L.I.) pp. 61-74. [Mosquitoes included.]
- ### MOSQUITO CONTROL AGENCY PROBLEMS
- Beams, B. F. 1978. Public education in Orange County, Calif. Mosquito and Vector Cont. Assoc. Proc. 46:40-41.
- Beckus, R. 1978. Review of 1977 legislative session and outlook for 1978. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:23-24.
- Christensen, F. 1978. Ineffective efficiency and other problems in public communication. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:33-37.
- Dalton, R. 1978. Board of trustees responsibility in labor relations negotiations. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:24-25.
- Dill, C. H. 1978. Source evolution and preventive planning in an urban vector control district. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:17. [Culex pipiens.]
- Eastwood, R. E. 1978. Planning for the prevention of vectors at the local level. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:18. [Mosquitoes included.]
- Hansen, C. P. 1978. Community education in the San Mateo County Mosquito Abatement District. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:38-39.
- Rivett, R. L. 1978. Mosquitoes' right to privacy. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:26-30.
- Roberts, F. C. 1978. Mosquito prevention planning with the regional agencies of Alameda County. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:19-20.
- Sanders, D. 1978. Vector prevention through the planning process. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:16. [Mosquitoes included.]
- Wolfe, R. 1978. Self insurance for districts. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:31-32.
- Womeldorf, D. J. 1978. Mosquito and mosquito-borne disease suppression. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:3-4.
- Womeldorf, D. J. and Keast, D. F. 1978. Vector prevention through legal action. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:21-22.

PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS

- Al-Aidroos, K. and Roberts, D. W. 1976. Mutants of *Metarrhizium anisopliae* with altered virulence toward mosquito larvae. Internat. Colloq. on Invert. Path. Proc. 1:423-424.
- Boreham, P. F. L. and Ohiagu, C. E. 1978. The use of serology in evaluating invertebrate prey-predator relationships: a review. Bul.

- Ent. Res. 68 (2): 171-194. [Mosquitoes included.]
- Brown, B. J. and Platzer, E. G. 1977. The effects of temperature on the infectivity of *Romanomermis culicivorax*. J. Nematology 9(2):166-172. [*Culex pipiens*.]
- Collins, F. H. and Washino, R. K. 1978. Microturbellarians as natural predators of mosquito larvae in northern California rice fields. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:91.
- de Barjac, H. 1978. Étude cytologique de l'action de *Bacillus thuringiensis* var. *israelensis* sur larves de Moustiques. Compt. Rend. Soc. de Biol. (Paris) Ser. D. 286(22):1629-1632.
- de Barjac, H. 1978. Toxicité de *Bacillus thuringiensis* var. *israelensis* pour les larves d'*Aedes aegypti* et d'*Anopheles stephensi*. Compt. Rend. Acad. Sci. Paris Ser. D 286(15): 1175-1178.
- Dhillon, M. S. and Platzer, E. G. 1978. Laboratory evaluation of fungicides for the control of *Catenaria anguillulae*, a fungus parasite of *Romanomermis culicivorax* (Nematoda: Mermithidae). Calif. Mosquito and Vector Cont. Assoc. Proc. 46:92-93.
- Domnas, A. J., Shipley, R. M. and Hicks, B. F. 1976. Sterol requirement for zoospore production by the mosquito parasite *Lagenidium giganteum*. Internat. Colloq. on Invert. Path. Proc. 1:427.
- Dubitsky, A. M., Dzerzhinsky, V. A. and Shestakov, V. I. 1978. The infection of mosquitoes from the Primorie Territory with the entomopathogenic fungus *Coelomomyces ilienensis* under laboratory conditions. Parazitologiya 12(4):364-366. In Rus., Engl. Sum.
- Farley, D. G. and Younce, L. C. 1978. Diel and seasonal variations in the movements of *Gambusia affinis* in Fresno County rice fields. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:94-98.
- Farley, D. G. and Younce, L. C. 1978. Effects of stocking methods on the distribution of *Gambusia affinis* in Fresno County rice fields. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:99-102.
- Federici, B. A. 1976. Establishment of an *in vivo* laboratory culture of *Coelomomyces dodgei*. Internat. Colloq. on Invert. Path. Proc. 1: 425-426.
- Federici, B. A. and Chapman, H. C. 1977. *Coelomomyces dodgei*: establishment of an *in vivo* laboratory culture. J. Invert. Path. 30(3):288-297. [*Anopheles quadrimaculatus*.]
- Fetter-Lasko, J. and Washino, R. K. 1978. Patterns of experimental infection of mosquito larvae by *Lagenidium giganteum*. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:90.
- Finney, J. R. 1976. The *in vitro* culture of the mermithid parasites of mosquitoes and black-flies. Internat. Colloq. on Invert. Path. Proc. 1:225-226.
- Galloway, T. D. and Brust, R. A. 1976. Field application of the mermithid nematode, *Romanomermis culicivorax* Ross and Smith, for the control of mosquitoes, *Aedes* spp., in spring in Manitoba. Manitoba Ent. 10:18-25.
- Hirose, Y., Okubo, S. and Yasuno, M. 1978. The effect of mosquito control by the use of the mosquito fish, *Gambusia affinis*, in urban area, Tokushima, Japan. Jap. J. Sanit. Zool. 29(2):163-168. In Jap., Engl. Sum.
- Hughes, D. S. and Platzer, E. G. 1977. Temperature effects on the parasitic phase of *Romanomermis culicivorax* in *Culex pipiens*. J. Nematology 9(2):173-175.
- Isaeva, N. M. 1977. New data on parasite-host relations of *Culicimermis schakhowii* Ribtsov et Isaeva, 1975 and *Aedes cantans* Mg. Vest. Zool. (Kiev) 5:86-88. In Rus.
- Karpenko, L. V. and Buchatsky, L. P. 1978. Pathology in *Aedes cantans* Meig. mosquito larvae infected by the iridescent virus. Mikrobiol. Zhur. 40(1):48-50. In Rus., Engl. Sum.
- LeBrun, R. A. 1976. Experimental observations of *Tetrahymena pyriformis* host specificity in selected *Aedes* mosquitoes. Internat. Colloq. on Invert. Path. Proc. 1:367-368.
- Legner, E. F. 1978. Efforts to control *Hydrilla verticillata* Royle with herbivorous *Tilapia zillii* (Gervais) in Imperial County irrigation canals. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:103-104.
- Levy, R. and Miller, T. W., Jr. 1977. Thermal tolerance of *Romanomermis culicivorax*, a nematode parasite of mosquitoes. J. Nematology 9(3):259-260.
- Menon, A. G. K. 1977. Fish and malaria control. Science and Culture 43(3):110-114.
- Miura, T., Takahashi, R. M. and Mulligan, F. S., III. 1978. Field evaluation of the effectiveness of predaceous insects as a mosquito control agent. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:80-81.
- Mulla, M. S., Navab-Gojrat, H. A. and Darwazeh, H. A. 1978. Toxicity of mosquito larvical pyrethroids to four species of freshwater fishes. Environmtl. Ent. 7(3):428-430.
- Nickle, W. R. 1976. Toward the commercialization of a mosquito mermithid. Internat. Colloq. on Invert. Path. Proc. 1:241-244.
- Panicker, K. N. and Rajagopalan, P. K. 1977.

- Biological control potential of *Anisops bouvieri* Kirkaldy (Hemiptera: Notonectidae). Indian J. Med. Res. 66(5):772-776. [*Culex pipiens quinquefasciatus* included.]
- Paschke, J. D., Webb, S. R., Wagner, G. W. 1976. Replication of mosquito iridescent virus in *Aedes aegypti* cells. Internat. Colloq. on Invert. Path. Proc. 1:118-122.
- Petersen, J. J. 1976. Status and future of mermitid nematodes as control agents of mosquitoes. Internat. Colloq. on Invert. Path. Proc. 1:236-240.
- Petersen, J. J. 1978. Development of resistance by the southern house mosquito to the parasitic nematode *Romanomermis culicivorax*. Environmtl. Ent. 7(4):518-520.
- Platzer, E. G. and MacKenzie-Graham, L. L. 1978. Predators of *Romanomermis culicivorax*. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:93.
- Platzer, E. G. and Stirling, A. M. 1978. Improved rearing procedures for *Romanomermis culicivorax*. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:87-88.
- Stewart, R. J. and Miura, T. 1978. Laboratory studies on *Notonecta unifasciata* Guerin and *Buenoa scimitra* Bare as predators of mosquito larvae. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:84-86.
- Sweeney, A. W. 1976. Bioassay of *Culicinomyces* in mosquito larvae. Internat. Colloq. on Invert. Path. Proc. 1:301-304. [*Anopheles amictus hilli*.]
- Valentyuk, E. I. and Kovalyukh, N. N. 1977. Detection of natural enemies of blood-sucking mosquito larvae by the method of radio marking. Vest. Zool. (Kiev) 5:75-77. In Rus. [*Aedes* and *Culex*.]
- Wagner, G. W. and Paschke, J. D. 1976. A comparison of the DNA of the "R" and "T" strains of mosquito iridescent virus. Internat. Colloq. on Invert. Path. Proc. 1:328.
- Washino, R. K. and Fukushima, C. K. 1978. Assessment of biological control agents against mosquito larvae in northern California: a progress report. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:89.
- Whitmore, D. H., Jr. and Hodges, D. H., Jr. 1978. *In vitro* pesticide inhibition of muscle esterases of the mosquitofish *Gambusia affinis*. Compar. Biochem. and Physiol. 59(2):145-149.
- World Health Organization. 1977. Special Programme for Research and Training in Tropical Diseases. Annual report 1977. Activities in vector control and the scientific working group on biological control of disease vectors. TDR/AR(1)/77.10, 4 pp. [See also TDR/AR(1)/77.10a Rev. 1.]
- Zalom, F. G., Grigarick, A. A. and Way, M. O. 1978. Predation by the larvae of *Tropisternus lateralis* (Fabricius) in California rice fields—a preliminary report. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:82-84. [*Aedes* and *Culex* included.]
- ### VARIOUS TYPES OF CONTROL
- Dorer, R. E. 1978. Mosquitoes, fish, and old tires. Mosquito News 38(3):418-420.
- Farley, D. G. and Reed, D. E. 1977. Comparison of chemical and biological methods to control rice field mosquitoes in Fresno County, California. Utah Mosquito Abat. Assoc. Proc. 30:14-15. [Pub. 1978.]
- Geveshausen, E. L., Sides, J. H. and Pelsue, F. W. 1978. Urban operational spray and management program by source. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:137.
- Loomis, E. C., Fontaine, R. E. and Boardman, R. M. 1977. Research seeks new ways to combat mosquitoes. Calif. Agr. 31(8):6-7.
- Luh, P. L. 1978. The integrated control of mosquitoes. Acta Ent. Sinica 21(2):217-232. In Chin., Engl. Sum.
- Reiter, P. 1978. The influence of dissolved oxygen content on the survival of submerged mosquito larvae. Mosquito News 38(3):334-337.
- ### EQUIPMENT
- Whitworth, B. T. 1978. Drop-zone determination for airborne nozzles. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:130-133.
- ### ATTRACTANTS AND REPELLENTS
- Boreham, P. F. L., Chandler, J. A. and Jolly, J. 1978. The incidence of mosquitoes feeding on mothers and babies at Kisumu, Kenya. J. Trop. Med. and Hyg. 81(4):63-67.
- Elizarov, Yu. A., Kost, A. N. and Yudin, L. G. 1975. A study of the repellent properties of substituted amides for insects and ticks. Insect Chemoreception, No. 2. pp. 95-104. In Rus., Engl. Sum. [Mosquitoes included. All Union Symposium on Insect Chemoreception Proc. 2.]
- Gleberman, S. E., Kotova, I. A., Nikolaev, G. M. and Yurchenko, V. V. 1978. Pharmacokinetics of dimethylphthalate. Med. Parazit. i Parazit. Bolezni 47(3):58-63. In Rus., Engl. Sum.
- Hwang, Y. S., Kramer, W. L. and Mulla, M. S. 1978. Chemical characterization of mosquito oviposition attractants and repellents. Calif.

- Mosquito and Vector Cont. Assoc. Proc. 46:75-76.
- Lindsay, I. S. and McAndless, J. M. 1978. Permethrin-treated jackets versus repellent-treated jackets and hoods for personal protection against black flies and mosquitoes. Mosquito News 38(3):350-356.
- McGovern, T. P., Schreck, C. E. and Jackson, J. 1978. Mosquito repellents: alicyclic amides as repellents for *Aedes aegypti* and *Anopheles quadrimaculatus*. Mosquito News 38(3):346-349.

RESISTANCE AND SUSCEPTIBILITY

- Bryan, J. H., Chalkley, J. and Di Deco, M. 1976. Linkage study on dieldrin resistance and an inversion on the second chromosome of *Anopheles stephensi*. Parassitologia 18(1-3):103-107. Ital. Sum.
- Pasteur, N. and Sinegre, G. 1978. Chlorpyrifos (Dursban®) resistance in *Culex pipiens pipiens* L. from southern France: inheritance and linkage. Experientia 34(6):709-711.
- Sinegre, M. 1978. Laboratoire d'évaluation des insecticides. Entente Interdepart. pour Demoustication du Littoral Mediter. Annexe I, pp.1-12. [Culex, Aedes, Anopheles.]

PESTICIDES AND CHEMICALS

- World Health Organization. 1978. Chemistry and specifications of pesticides. Second report of the WHO Expert Committee on Vector Biology and Control. WHO Tech. Rpt. Ser. 620, 36 pp.

TOXICOLOGY

- Gerstein, R. 1977. Malathion and mosquito control. Forest Notes 129 (Summer):6-7.

BEHAVIOR, BIOLOGY AND ECOLOGY

- Alekseev, A. N. and Fedorova, V. G. 1978. Attempts at determining threshold densities of blood-sucking Diptera troublesome for man. Med. Parazit. i Parazit. Bolezni 47(3):110-111. In Rus., Engl. Sum. [Aedes spp.]
- Anthony, D. W. and Chapman, H. C. 1978. VII. Mosquitoes (family Culicidae). U.S. Dept. Agr., Agr. Handbook No. 518:36-45.
- Bushrod, F. M. 1978. Autogeny in East African *Culex pipiens quinquefasciatus* (=fatigans). Roy Soc. Trop. Med. and Hyg. Trans. 72(3):323-324.
- Chandler, J. A. and Highton, R. B. 1975. The succession of mosquito species (Diptera, Culicidae) in rice fields in the Kisumu area of Kenya, and their possible control. Bul. Ent. Res. 65(2):295-302.
- Consoli, R. A. G. B. and Williams, P. 1978. Laboratory observations on the bionomics of *Aedes fluviatilis* (Lutz) (Diptera: Culicidae). Bul. Ent. Res. 68(1):123-136.
- Cuellar, C. B. and Sawyer, B. 1978. Survival of mosquito larvae in single and mixed species rearings. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):436.
- Ferguson, V. M. and Fox, R. C. 1978. A comparison of aquatic insects in natural inlets with those in the heated effluent from the Oconee Nuclear Station—littoral zone. Georgia Ent. Soc. J. 13(3):202-213. [Culicidae included.]
- Germain, M., Hervé, J. P. and Geoffroy, B. 1977. Changes in the survival rate of *Aedes africanus* females in a forest gallery of the south of Central African Empire. Ent. Méd. Parasitol. Cah. 15(4):291-299. In Fr., Engl. Sum.
- Gilpin, M. E. and Langford, R. P. 1978. Evidence for density dependent growth regulation among larval *Aedes sierrensis* mediated by food competition. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:42-45.
- Gordon, S. W. and Coauthors. 1978. Increased prevalence of *Culex tarsalis* in Ohio and its implications. Mosquito News 38(3):366-369.
- Gordon, E. W., Smith, T. A., Ortiz, J. and Moisse, E. 1978. The effects of tropical storm "Doreen" on mosquito populations in Imperial Valley. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:55-57.
- Guy, Y. and Larrouy, G. 1976. Au sujet de l'association de certains caractères éthologiques chez les moustiques. Soc. Hist. Naturelle Toulouse Bul. 112(3-4):289-313.
- Hervé, J. P. 1977. Experiments of mark-release-recapture on *Aedes aegypti* in West African Sudanese savannah. II. Relations between habitat, morphology and behaviour. Ent. Méd. Parasitol. Cah. 15(4):365-372. In Fr., Engl. Sum.
- Hwang, Y. S., Navvab-Gojrat, H. A. and Mulla, M. S. 1978. Overcrowding factors of mosquito larvae. 10. Structure-activity relationship of 3-methylalkanoic acids and their esters against mosquito larvae. J. Agr. and Food Chem. 26(3):557-560.
- Ikeshoji, T. and Coauthors. 1977. Overcrowding factors of mosquito larvae. X. Structure-bioactivity relationship and bacterial activation of the alkyl-branched hydrocarbons. Appl. Ent. and Zool. (Tokyo) 12(3):265-273.

- Jones, J. C. 1978. The feeding behavior of mosquitoes. *Scientific Amer.* 238(6):138-148 *passim.* [*Aedes aegypti*.]
- Jordan, R. G. and Bradshaw, W. E. 1978. Geographic variation in the photoperiodic response of the western tree-hole mosquito, *Aedes sierrensis*. *Ent. Soc. Amer. Ann.* 71(4):487-490.
- Lang, J. T. 1978. Relationship of fecundity to the nutritional quality of larval and adult diets of *Wyeomyia smithii*. *Mosquito News* 38(3):396-403.
- Lien, J. C. 1978. Ecology of Taiwan mosquitoes and their control. Seminar on Ecology of Insects and their control held by Academia Sinica May 15-16, 1978. pp. 37-69. In Chin.
- Lozovei, A. L. and Luz, E. 1976. Diptera Culicidae em Curitiba e Arredores. I. Ocorência. II. Alimentação. *Arq. de Biol. e Technol.* 19(1):25-42; 43-84. Engl. Sum.
- Magnarelli, L. A. 1978. Bionomics of the salt-marsh mosquito, *Aedes cantator* (Diptera: Culicidae). *Environmtl. Ent.* 7(4):512-517.
- Mahadev, P. V. M., Dhanda, V. and Shetty, P. S. 1978. *Aedes aegypti* (L.) in Maharashtra state—distribution and larval habitats. *Indian J. Med. Res.* 67(April):562-580.
- Mas, J. P. 1977. Les moustiques et leurs biotopes. *Soc. Sci. Nat. Charente-Maritime Ann. Suppl.* (l'Île d'Aix, géologie, histoire, climatologie, flore, faune Publié sous direction du D.R. Duguy) January pp. 153-159.
- Meyer, R. P. and Washino, R. K. 1978. Seasonal activity, relative abundance, autogeny, and physiological age in central California populations of *Culiseta inornata* (Willistson). *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:54-55.
- Mitchell, L. and Rockett, C. L. 1978. Larval specimens of *Culex tarsalis* Coquillett in Ohio. *Mosquito News* 38(3):422-423.
- Nakamura, H. 1978. Oviposition preference of *Culex pipiens molestus* and *C. tritaeniorhynchus summorosus* onto the waters conditioned by the egg rafts or the larvae. *Jap. J. Sanit. Zool.* 29(2):117-123. In Jap., Engl. Sum.
- Nikolaeva, N. V. 1978. Numbers of blood-sucking mosquitoes (Diptera, Culicidae) in the forest tundra biocoenoses of south Yamal. *Zool. Zhur.* 57(7):1017-1023. In Rus., Engl. Sum.
- Reisen, W. K. and Aslamkhan, M. 1978. Bitting rhythms of some Pakistan mosquitoes (Diptera: Culicidae). *Bul. Ent. Res.* 68(2):313-330.
- Reisen, W. K. and Siddiqui, T. F. 1978. The influence of conspecific immatures on the oviposition preferences of the mosquitoes *Anopheles stephensi* and *Culex tritaeniorhynchus*. *Pakistan J. Zool.* 10(1):31-41.
- Reuben, R., Das, P. K., Kazmi, S. J. and Brooks, G. D. 1978. Seasonal changes in egg-laying activity of *Aedes* species in Sonepat by the use of black jar ovitraps. *Indian J. Med. Res.* 67(May):763-766.
- Reuben, R., Das, P. K., Samuel, D. and Brooks, G. D. 1978. Estimation of daily emergence of *Aedes aegypti* (Diptera: Culicidae) in Sonepat, India. *J. Med. Ent.* 14(6):705-714.
- Rishikesh, N. and Rosen, P. 1976. Hut entry and exit by *Anopheles gambiae* and *Anopheles funestus* in an unsprayed village near Kaduna in northern Nigeria. *Parassitologia* 18(1-3):119-124. Ital Sum.
- Sato, S., Takahashi, H., Yamada, M. and Kimura, K. 1976. Ecological studies on the mosquito larvae in the Shakotan Peninsula. 2. The structure of the larval association. *Hokkaido Univ. Educ. J. (Sect. II B)* 26(2):17-26. In Jap., Engl. Sum. [Includes *Aedes*, *Anopheles*, *Culex*.]
- Scorza, J. V. and Coauthors. 1977. Ecología de las larvas de *Anopheles nuneztovari* Gabaldón, 1940 en El Vigía, Mérida, Venezuela. IV. Variaciones de las densidades larvarias en dos criaderos naturales de *Anopheles nuneztovari* y sus relaciones con el régimen bimodal de precipitación de la región occidental de Venezuela. *Bol. de la Dirección de Malariol. y San. Amb.* 17(4):280-294. Engl. Sum.
- Sharma, V. P. 1977. Insemination rate in *Culex pipiens fatigans* Wied. Moving from wells to the village. *J. Commun. Dis.* 9(2):128-131.
- Sichinava, Sh. G. 1976. Feeding sources of mosquitoes of abundant species of the Culicidae family in the Abkhazian ASSR. *Akad. Nauk Gruz SSR Izvest. Biol. Ser.* 2(4):344-351. In Rus., Engl. Sum.
- Suzuki, T. 1978. Preliminary studies on blood meal interval of *Aedes polynesiensis* in the field. *Jap. J. Sanit. Zool.* 29(2):169-174. In Engl., Jap. Sum.
- Suzzoni-Blatger, J., Guy, Y. and Larrouy, G. 1976. Essai sur la dynamique des populations d'un gîte épigé de *Culex pipiens* L. 1758 (Diptera—Culicidae) de Toulouse. *Soc. Hist. Naturelle Toulouse Bul.* 112(3-4):237-242.
- Vansulin, S. A. and Maksimova, V. G. 1978. Changes of the autogeny of *Culex pipiens molestus* (Culicidae) of the Leningrad population. *Parazitologiya* 12(4):361-362. In Rus., Engl. Sum.
- Wilkinson, R. N., Gould, D. J., Boonyakanist, P. and Segal, H. E. 1978. Observations on

- Anopheles balabacensis* (Diptera: Culicidae) in Thailand. J. Med. Ent. 14(6):666-671.
- ### GENETICS AND GENETIC CONTROL
- Ainsley, R. W., Asman, S. M. and McDonald, P. T. 1978. Laboratory mating competitiveness of *Culex tarsalis* colonies. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:110-111.
- Baker, R. H., Sakai, R. K., Saifuddin, U. T. and Perveen, A. 1978. Induced chromosomal aberrations in *Anopheles culicifacies*. Mosquito News 38(3):370-376.
- Borkovec, A. B. and Woods, C. W. 1976. Aziridines as insect chemosterilants. Israel J. Ent. XI:53-59. [*Anopheles albimanus* included.]
- Bruno-Smiraglia, C. and Lavagno, A. 1976. The salivary gland chromosomes of *Anopheles labranchiae* Falleroni 1926. Parasitologia 18(1-3):95-101. Ital. Sum.
- Coluzzi, M. and Coauthors. 1977. Genetic differentiation in the species of the *Anopheles gambiae* complex. Assoc. Genet. Ital. Atti 22:147-149. In Ital. and Engl.
- Curtis, C. F. 1978. Genetic sex separation in *Anopheles arabiensis* and the production of sterile hybrids. WHO Bul. 56(3):453-454.
- Di Deco, M. and Coauthors. 1978. Linkage studies between chromosome inversions and enzyme loci in the mosquito *Anopheles stephensi*. Heredity 40(3):457-458.
- Dietz, K. 1976. The effect of immigration on genetic control. Theoret. Population Biol. 9(1):58-67. [*Culex pipiens quinquefasciatus*.]
- Fuchs, M. S. and Kang, S. H. 1978. Evidence for a naturally occurring inhibitor of oviposition in *Aedes aegypti*. Ent. Soc. Amer. Ann. 71(4):473-475.
- Kreutzer, R. D., Kitzmiller, J. B. and Rabbani, M. G. 1976. Cytogenetically distinguishable sympatric and allopatric populations of the mosquito *Anopheles albimaculans*. Acta Amazonica 6(4):473-481.
- McClelland, G. A. H. 1978. A new sex-linked mutant in *Culex pipiens*. Bleached mutant characterized by reduced recombination in males. J. Heredity 69(2):81-85.
- McDonald, P. T. and Coauthors. 1978. Outdoor cage tests of genetic strains of *Culex tarsalis* for future field releases. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:105-109.
- Miles, S. J. 1978. Enzyme variation in the *Anopheles gambiae* Giles group of species (Diptera: Culicidae). Bul. Ent. Res. 68(1):85-96.
- Oguma, Y. 1978. Crossing studies among six strains of *Anopheles sinensis*. Mosquito News 38(3):357-366.
- Saul, S. H., Sinsko, M. J., Grimstad, P. R. and Craig, G. B., Jr. 1978. Population genetics of the mosquito *Aedes triseriatus*: genetic-ecological correlation at an esterase locus. Amer. Naturalist 112(984):333-339.
- Sharma, G. P., Mittal, O. P., Chaudhry, S. and Dev, V. 1977. Chromosomal polymorphism in *Anopheles stephensi* Liston (Culicidae: Diptera). Nucleus 20(1-2):139-144.
- Sharma, O. P. and Pasahan, S. C. 1977. A comparison of the polytene chromosomes of two oriental anopheline species of the subgenus *Anopheles*. Chromosome Information Serv. No. 22:16-17.
- Sharma, O. P. and Pasahan, S. C. 1977. A comparison of the salivary chromosomes of *Culex bitaeniorhynchus* and *Culex fuscovenustus* of the subgenus *Culex* (Culicidae: Diptera). Chromosome Information Serv. No. 22:17-18.
- Sharma, V. P. 1977. Sterility evaluation of F_1 progeny of the sterilized *Culex pipiens fatigans* Wied. J. Commun. Dis. 9(2):139-140.
- Stegniy, V. N., Novikov, Yu. M. and Kabanova, V. M. 1978. Cytogenetic analysis and distribution of *Anopheles beklemishevi*. Zool. Zhur. 57(6):873-876. In Rus., Engl. Sum.
- Sweeny, T. L. and Barr, A. R. 1978. Sex ratio distortion caused by meiotic drive in a mosquito, *Culex pipiens* L.. Genetics 88(3):427-446.
- ### ANATOMY, MORPHOLOGY AND PHYSIOLOGY
- Barnard, D. R. and Mulla, M. S. 1978. Seasonal variation of lipid content in the mosquito *Culiseta inornata*. Ent. Soc. Amer. Ann. 71(4):637-639.
- Butters, T. D. and Hughes, R. C. 1978. Lectin binding to mosquito *Aedes aegypti* and human KB cells: structural comparisons of membrane oligosaccharides. Carbohydrate Res. 61(Mar.):159-168. [aegyptii in original.]
- Cole, S. J. and Gillett, J. D. 1978. The influence of the brain hormone on retention of blood in the mid-gut of the mosquito *Aedes aegypti* (L.). II. Early elimination following removal of the medical neurosecretory cells of the brain. Roy. Soc. London Proc. Ser. B. 202(1147):307-311.
- Fiil, A. 1978. Follicle cell bridges in the mosquito ovary: syncytia formation and bridge morphology. J. Cell Sci. 31(June):137-143.
- Hervy, J. P. 1977. Experiments of mark-

- release-recapture on *Aedes aegypti* in West African Sudanese savannah. I. Trophogonic cycle. Ent. Méd. Parasitol. Cah. 15(4):353-364. In Fr., Engl. Sum.
- Igbokwe, E. C. and Downe, A. E. R. 1978. Differential electrophoretic behavior among strains of *Aedes aegypti* (Diptera: Culicidae). J. Med. Ent. 14(6):662-665.
- Igbokwe, E. C. and Downe, A. E. R. 1978. Electrophoretic and histochemical comparison of three strains of *Aedes aegypti*. Compar. Biochem. and Physiol. 60B(2):131-136.
- Jones, J. C. 1978. A note on the use of the terms instar and stage. Ent. Soc. Amer. Ann. 71(4):491-492.
- Kardatzke, J. T. 1978. Bipolar gynandromorph of *Aedes fitchii*. Mosquito News 38(3):421-422.
- Keeley, L. L. and Olson, J. K. 1977. Toxic effects of mitochondrial DNA inhibitors on insect growth and development. J. Insect Physiol. 23(3):303-307. [*Aedes aegypti* included.]
- Klowden, M. J. and Lea, A. O. 1978. Blood meal size as a factor affecting continued host-seeking by *Aedes aegypti* (L.). Amer. J. Trop. Med. and Hyg. 27(4):827-831.
- Laurence, B. R. 1977. Ovary development in mosquitoes: a review. Advances in Invert. Reproduction 1:154-165.
- Lecis, A. R., Santarini, C., Figus, V. and Mameli, M. 1977. Preliminary studies of meiosis in female *Anopheles atroparvus* (Diptera: Culicidae). Riv. di Biologia 70(1-2):137-147. In Engl. and Ital.
- McIver, S. and Siemicki, R. 1978. Fine structure of antennal sensilla coeloconica of adult *Toxorhynchites brevipalpis* (Diptera: Culicidae). J. Med. Ent. 14(6):673-676.
- Oda, T., Wada, Y. and Mori, A. 1978. Follicular degeneration in unfed nulliparous females of *Culex tritaeniorhynchus*. Trop. Med. (Nagasaki) 20(2):113-122. In Engl., Jap. Sum.
- Raminani, L. N. and Cupp, E. W. 1978. Embryology of *Aedes aegypti* (L.) (Diptera: Culicidae): organogenesis. Internat. J. Insect Morphol. and Embryol. 7(3):273-296.
- Ryzantseva, A. E. 1977. Phenology of blood-sucking mosquito (Diptera, Culicidae) under conditions of Donetsk region. Vest. Zool. (Kiev) 5:82-85. In Rus.
- Sengupta, R. 1977. Changes in acetylcholinesterases and cholinesterases during development of *Aedes aegypti* (L.) (Diptera, Culicidae). Quaestiones Ent. 13(2):183-189.
- Tadkowski, T. M. and Jones, J. C. 1978. Endogenous synthesis of lipid yolk in mosquito oocytes. Experientia 34(5):627.
- Tsyba, I. F. 1975. A preliminary note on the bioelectrical effect of neurons of the brain in *Aedes aegypti* under stimulation of peripheral receptors by odor. Insect Chemoreception No. 2. pp. 125-130. In Rus., Engl. Sum. [All Union Symposium on Insect Chemoreception Proc. 2.]
- Yeates, R. A. 1978. Proteinases of female *Aedes aegypti* (L.). Preliminary note. Acta Tropica 35(2):195-196.

TECHNIQUES

- Bailey, D. L., Daine, D. A., Munroe, W. L. and Thomas, J. A. 1978. Colony maintenance of *Anopheles albimanus* Wiedemann by feeding preserved blood through natural membrane. Mosquito News 38(3):403-408.
- Belashev, B. P. and Gracheva, T. S. 1978. Pneumatic operating aspirator. Voen. Med. Zhur. (1):79. In Rus.
- Bryan, J. H. and Smalley, M. E. 1978. The use of ABO blood groups as markers for mosquito biting studies. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):357-360.
- Bryan, J. H. and Southgate, B. A. 1978. Studies of forced mating techniques on anopheline mosquitoes. Mosquito News 38(3):338-342.
- Focks, D. A., Seawright, J. A. and Hall, D. W. 1978. Laboratory rearing of *Toxorhynchites rutilus rutilus* (Coquillett) on a non-living diet. Mosquito News 39(3):325-328.
- Gabaldon, A. and Ulloa, G. 1978. A quick and easy method to determine the sporozoite index in mosquitoes. Roy. Soc. Trop. Med. and Hyg. Trans. 72(3):311-312.
- Gillies, M. T., Jones, M. D. R. and Wilkes, T. J. 1978. Evaluation of a new technique for recording the direction of flight of mosquitoes (Diptera: Culicidae) in the field. Bul. Ent. Res. 68(1):145-152.
- Gutierrez, M. C. 1977. Modifications to the concentrator for mosquito larvae. Calif. Vector Views 24(9-10):37.
- Hazelrigg, J. 1978. A laboratory temperature-controlled recirculating water system for investigating aquatic organisms. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:66-69.
- Miura, T., Takahashi, R. M., Reed, D. E. and Farley, D. G. 1978. An empirical method for predicting the hatching date of *Culex tarsalis* eggs in the early spring in Fresno County, California. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:47-49.
- Nelson, R. L. and Milby, M. M. 1978. Distribu-

- tion of *Culex tarsalis* in an isolated field area in California. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:50-53.
- New Jersey Agricultural Experiment Station. Mosquito Research and Control. 1978. Vector surveillance report. 3(2):8pp.; 3(3):8pp.; 3(4):8pp.
- New Jersey Agricultural Experiment Station. 1978. Mosquito surveillance report. 6(2):8pp.; 6(3); 6(4):8pp.
- New Jersey Agricultural Experiment Station. 1978. Mosquito Surveillance Report. Period ending July 21, 1978. 6(1):1-8 [Pages unnumbered.]
- Pesticide Development and Safe Use Unit. 1978. Spectrophotometric kit for measuring cholinesterase activity. WHO/VBC/78.692, 10 pp.
- Peterson, R. V., Bolton, H. T. and Frederick, R. M. 1978. Comparison of several slide sampling techniques used for collecting ULV droplets. Mosquito News 38(3):412-416.
- Polk, U. B. 1978. Use of sugar cubes as a carbohydrate source for adult *Culex quinquefasciatus* Say. Mosquito News 38(3):422.
- Price, G. D., Harris, R. H. and Smith, J. 1978. An uncommon system for manual control of olfactometer air relative humidity. J. Med. Ent. 14(6):715-716.
- Roman, E. and Pichot, J. 1977. Procédé de double-montage pour l'obtention de belles préparations de moustiques desséchés. Entomologiste. (Paris) 33(4-5):183-185.
- Supryaga, V. A., Dashkova, N. G. and Rasnitsyn, S. P. 1978. Comparison of some methods for artificial feeding on blood of three mosquito species. Med. Parazit. i Parazit. Bolezni 47(3):111-112. In Rus. [*Aedes albopictus*, *Anopheles atroparvus*, *Culex pipiens molestus*.]
- Tamarina, N. A. and Maksimov, V. N. 1978. Optimizing laboratory cultures of insects, for example *Culex pipiens molestus* Forsk. (Diptera: Culicidae) mosquitoes. Zhur. Obshch. Biol. 39(1):111-121. In Rus., Engl. Sum.
- Tinker, M. E. 1978. Relationship of the house index and the Breteau index for *Aedes aegypti*. Dengue, Yellow Fever and *Aedes aegypti* in the Americas Newsletter 7(1):11-13.
- Stollar, B. D., Koo, R. and Stollar, V. 1978. Immunofluorescent detection of nuclear double-stranded RNA in situ in Vero and mosquito cells. Science 200(4348):1381-1383.
- ### TAXONOMY
- Filippova, V. V. 1978. Description of the pupa of the mosquito *Toxorhynchites christophi* Portschninsky, 1884 (Culicidae). Parazitologiya 12(4):362-364. In Rus., Engl. Sum.
- Harbach, R. E. 1977. Comparative and functional morphology of the mandibles of some fourth stage mosquito larvae (Diptera: Culicidae). Zoomorphologie 87(3):217-236.
- Harbach, R. E. 1978. Comparative structure of the labiohypopharynx of fourth stage mosquito larvae (Diptera: Culicidae), with comments on larval morphology, evolution and feeding habits. Mosquito Systematics 10(3):301-333.
- Huang, Y. M. 1978. Redescription and subgeneric position of *Aedes meronephada* (Dyar and Shannon) with notes on the subgenus *Diceromyia* (Diptera: Culicidae). Mosquito Systematics 10(3):334-350.
- Huang, Y. M. 1978. Taxonomic status of *Aedes (Stegomyia) laffooni* Knight and Rozeboom with a redescription of *Aedes (Stegomyia) pseudobolineatus* Brug (Diptera: Culicidae). Mosquito Systematics 10(3):351-364.
- Ishii, T. 1978. On the *Culex pipiens* group in Japan Part III. A historical review of its research 2. Review of the adult characters (1). J. Science (Univ. Tokushima) 11:31-50. In Jap., Engl. Sum.
- Sirivanakarn, S. and White, G. B. 1978. Neotype designation of *Culex quinquefasciatus* Say (Diptera: Culicidae). Ent. Soc. Wash. Proc. 80(3):360-372.
- Skierska, B. 1977. Klucze do oznaczania owadów Polski. Czesc XXVIII Muchowski—Diptera. Zeszyt 9 b Komary—Culicidae. Polskie Towarzystwo Entomologiczne Nr. 99, 120 pp.
- Yan, S. L. 1977. External structures of all larval instars of five common *Culex* species in Taiwan. Chinese J. Microbiol. 10(3):80-86. In Engl.

DISTRIBUTION

- Arsenieva, L. P. and Neronov, V. M. 1978. The state of knowledge and regional features of mosquito and sandfly fauna in Afghanistan. Med. Parazit. i Parazit. Bolezni 47(3):29-34. In Rus., Engl. Sum.

Techniques—Tissue Culture

- Berezina, L. K. and Coauthors. 1978. Some properties of a continuous culture of mosquito cells. Voprosy Virusologii No. 4:479-485. In Rus., Engl. Sum.

- Heinemann, S. J. and Belkin, J. N. 1978. Collection records of the project "Mosquitoes of Middle America". 11. Venezuela (VZ); Guianas: French Guiana (FG, FGC), Guyana (GUY), Surinam (SUR). *Mosquito Systematics* 10(3):365-459.
- Lane, R. P. 1976. Fam. Culicidae. Musée Roy. Afr. Centrale Ser. in-8° (Sci. Zool.), Tervuren (La Faune Terrestre de l'Île de Sainte Hélène Ann. Troisième partie) 215:43-46.
- Minar, J. 1976. Culicidae from Mongolia (Diptera). *Acta Zool. (Budapest)* 22(3-4):335-350. In Ger., Engl. Sum.
- Pliskin, A. A. 1975. Bloodsucking Diptera of the Tian-Chan interior. In *Entomologiceskie Issledovaniya v Kirgizii Izdatelstvo "Ilim"* Frunze pp. 105-107. In Rus. [*Culex* included.]
- Reed, D. E. 1978. Occurrence of mosquito larvae in irrigated pastures in western Fresno County, California. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:61-65
- Sharkov, A. A. 1978. Detection of *Culex pipiens molestus* Forskal in Murmansk. *Med. Parazit. i Parazit. Bolezni* 47(3):112-113. In Rus.
- Shipp, J. L., Wright, R. E. and Pengelly, D. H. 1978. Distribution of *Aedes triseriatus* (Say) and *Aedes hendersoni* Cockerell in southwestern Ontario, 1975-76. *Mosquito News* 38(3):408-412.
- Sitaraman, N. L. and Coauthors. 1978. *Anopheles varuna* Iyengar, 1924 in Rameswaram island, Tamil Nadu state—a short communication. *Indian J. Med. Res.* 67(April):581-582.
- Spuris, Z. 1977. Die Stechmücken der Gattung *Aedes* im Urstromtal des Glusses Gauja bei Sigulda. *Lavijas Entomologs (Riga)* 20:55-56. In Letton, Ger. Sum.

SEVERAL DISEASES

- Bourgeade, A., Maestracci, D., Nguemby N'bina, C. and Camps-Quelen, A. 1977. Ap- proche sanitaire en Guyane française. *Méd. Afr. Noire* 24(11):737-740. [Malaria and arboviruses included.]

ARBOVIRUSES AND OTHER VERTEBRATE VIRUSES

- Abdel-Wahab, K. S. E. and Coauthors. 1978. Rift Valley fever virus infections in Egypt: pathological and virological findings in man. *Roy. Soc. Trop. Med. and Hyg. Trans.* 72(4):392-396.
- Barry, C. 1974-75. The application of invertebrate tissue culture in arboviruses studies.

- Anais de Microbiol. (Rio De J)* 21:29-45. In Engl. [*Aedes aegypti* and *A. albopictus*.]
- Brzeski, H. and Kennedy, S. I. T. 1978. Synthesis of alphavirus-specified RNA. *J. Virology* 25(2):630-640.
- Bulychev, V. P., Kostyukov, M. A. and Gordeeva, Z. E. 1978. Experimental infection of *Aedes caspius caspius* Pall. mosquitoes with Tahyna virus. *Med. Parazit. i Parazit. Bolezni* 47(3):63-65. In Rus., Engl. Sum.
- Coverdale, O. R., Cybinski, D. H. and St. George, T. D. 1978. Congenital abnormalities in calves associated with Akabane virus and Aino virus. *Austral. Vet. J.* 54(3):151-152.
- Danielová, V. and Coauthors. 1978. Arbovirus isolations from mosquitoes in south Slovakia. *Folia Parasitol.* 25(2):187-191. In Engl.
- de Góes, P., Barnett, H. C. and Otero, L. S. 1974-75. Studies on arboviruses. Considerations on mosquito vectors of arboviruses in Rio de Janeiro. *Anais de Microbiol. (Rio De J)* 21:9-28. In Engl.
- DSouza Prakash, M. B., Nagarkatti, S. and Rao, K. M. 1978. Serological evidence for arboviral infection among horses—HI test by filter paper disc method. *Indian J. Med. Res.* 67(May):708-712.
- Eaton, B. T. and Randlett, D. J. 1978. Origin of the actinomycin D insensitive RNA species in *Aedes albopictus* cells. *Nucleic Acids Res.* 5(4):1301-1314.
- Elizan, T. S., Schwartz, J., Yahr, M. D. and Casals, J. 1978. Antibodies against arboviruses in postencephalitic and idiopathic Parkinson's disease. *Arch. Neurology* 35(5):257-260.
- Enzmann, P. J. and Weiland, F. 1978. Structural similarities of hog cholera virus with togaviruses. *Arch. Virology* 57(4):339-348.
- Gear, J. H. S. 1977. Haemorrhagic fevers of Africa an account of two recent outbreaks. *South Afr. Vet. Assoc. J.* 49(1):5-8.
- Ghosh, S. N., Kulkarni, S. M. and Dhanda, V. 1978. Antibody to arthropod-borne viruses in small mammals of Pune district. *Indian J. Med. Res.* 67(May):704-707.
- Gligic, A. and Adamovic, Z. R. 1976. Isolation of Tahyna virus from *Aedes vexans* mosquitoes in Serbia. *Mikrobiologija* 13(2):119-129.
- Johnson, B. K. and Coauthors. 1978. The isolation of a Bwamba virus variant from man in western Kenya. *J. Medical Virol.* 2(1):15-20.
- Kimura, T. and Ueba, N. 1978. Some biological and serological properties of large and small plaque variants of Getah virus. *Arch.*

- Virology 57(3):221-229.
- Marcato, P. S. and Simoni, P. 1977. Ultrastructural researches on rabbit myxomatosis. Lymphnodal lesions. *Vet. Path.* 14(4):361-367.
- McLean, D. M. and Coauthors. 1978. Transmission of Northway and St. Louis encephalitis viruses by arctic mosquitoes. *Arch. Virology* 57(4):315-322.
- Nozawa, C. M., De Souza, M. M., Machado, R. D. and De Goes, P. 1974-75. Occurrence of arboviruses in the state of Rio de Janeiro. Incidence of antibody inhibitors of hemagglutination against Oriboca virus (Arbovirus group C). *Anais de Microbiol. (Rio De J)* 21:93-107. In Por., Engl. Sum.
- Shen, D. T., Gorham, J. R., Jones, R. H. and Crawford, T. B. 1978. Failure to propagate equine infectious anemia virus in mosquitoes and *Culicoides variipennis*. *Amer. J. Vet. Res.* 39(5):875-876.
- Sinkovics, Gy. 1977. Experience gained in the vaccination of rabbits to control myxomatosis. *Kistenyésztök Lapja* 4:17.
- Vezza, A. C. and Coauthors. 1978. Virion RNA species of the arenaviruses Pichinde, Tacaribe, and Tamiami. *J. Virology* 26(2):485-497.
- Workman, E. B. and Coauthors. 1976. Arbovirus and mosquito vector surveillance in coastal and irrigated desert areas of southern California 1972-73. *Soc. Vector Ecologists Bul.* 3:27-40.
- Arboviruses—Dengue**
- Andrews, B. S. and Coauthors. 1978. Replication of dengue and Junin viruses in cultured rabbit and human endothelial cells. *Infect. and Immun.* 20(3):776-781.
- Chaturvedi, U. C., Tandon, P., Mathur, A. and Kumar, A. 1978. Host defence mechanisms against dengue virus infection of mice. *J. General Virol.* 39(2):293-302.
- Chumdermpadetsuk, S. 1978. Early recognition of severe dengue hemorrhagic fever. *Med. Assoc. Thai. J.* 61(1):42-47.
- Kemp, G. E. 1978. Dengue in Africa. Dengue, Yellow Fever and *Aedes aegypti* in the Americas Newsletter 7(1):14-16.
- Kulkarni, S. M. and Coauthors. 1977. Dengue epidemic in Amalner Town, Jalgaon District, Maharashtra, India—entomological investigations. *J. Commun. Dis.* 9(2):124-127.
- Persaud, V. 1977. The dengue epidemics in Jamaica. *West Indian Med. J.* 26(3):103-104.
- San Martín, C., Dyer, A., Bowen-Wright, C. and Wilson-Ivey, V. 1978. The dengue investigation in Spanish Town, Montego Bay, Mandeville, and Port Antonio. *Dengue, Yellow Fever and Aedes aegypti in the Americas Newsletter* 7(1):7-9.
- Weiland, H. T., Williams, M. C. and Hull, B. 1978. Serologic survey of dengue and other arboviruses in Curaçao and Aruba, 1973. *Pan Amer. Health Organ. Bul.* 12(2):134-142.
- Woodall, J. P. and Coauthors. 1978. Dengue in the Dominican Republic and Haiti, 1977-1978. *Dengue, Yellow Fever and Aedes aegypti in the Americas Newsletter* 7(1):6-7.
- Woodall, J. P. and Coauthors. 1978. United States of America, Puerto Rico, and the U.S. Virgin Islands, dengue, 1977-1978. *Dengue, Yellow Fever, and Aedes aegypti in the Americas Newsletter* 7(1):10-11.

Arboviruses—Encephalitis

- Embil, J. A. and Coauthors. 1978. Antibodies to snowshoe hare virus of the California group in the snowshoe hare (*Lepus americanus*) population of Nova Scotia. *Amer. J. Trop. Med. and Hyg.* 27(4):843-845.
- Eminons, R. W., Grodhaus, G. and Bayer, E. V. 1978. Surveillance for arthropod-borne viruses and disease by the California State Department of Health, 1977. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:10-14. [Encephalitis.]
- Lindsey, H. S., Thompson, W. H. and Obijeski, J. F. 1978. Diagnosis of California La Crosse virus infection by counterimmunoelectrophoresis. *J. Clin. Microbiol.* 7(6):603-608.
- New Jersey Agricultural Experiment Station Mosquito Research and Control. 1978. Vector Surveillance Report. Period June-July, 1978. 3(1):1-10.
- Sprance, H. E., Main, A. J., Jr. and Wallis, R. C. 1978. Jamestown Canyon virus in Connecticut. *Mosquito News* 38(3):392-395.
- Arboviruses—Encephalitis—CE, SLE**
- Levy, J. S. and Coauthors. 1978. St. Louis encephalitis in Memphis-Shelby County, Tennessee, 1975: epidemiologic aspects of human cases. *South. Med. J.* 71(6):633-637.
- Maetz, H. M. and Coauthors. 1978. Epidemiology and control of St. Louis encephalitis in Birmingham, Alabama, 1975. *Amer. J. Pub. Health* 68(6):588-590.

Arboviruses—Encephalitis—EEE, WEE

Crans, W. J. 1977. Current knowledge of the epidemiology of eastern encephalitis in New Jersey. Utah Mosquito Abat. Assoc. Proc. 30:16-17. [Pub. 1978.]

Fedorova, T. S. 1978. Insulin activity of the blood serum of rabbits immunized with tick-borne encephalitis and western horse encephalomyelitis viruses. Zhur. Mikrobiol. Epidemiol. i Immunol. No. 2:75-77. In Rus., Engl. Sum.

Leung, M. K., McLintock, J. and Iversen, J. 1978. Intranasal exposure of the Richardson's ground squirrel to western equine encephalomyelitis virus. Canad. J. Compar. Med. 42(2):184-191.

Pest Control. 1978. Western encephalitis mosquito moving eastward? Pest Control 46(7):11,32.

Arboviruses—Encephalitis—JE

Ghosh, S. N. and Coauthors. 1978. Development of infectious virus and antigen production of JE virus in mouse brain, Vero, *Aedes albopictus* and *Aedes w-albus* cell cultures. Indian J. Expt. Biol. 16(3):405-407.

Hayashi, K. and Coauthors. 1978. Ecology of Japanese encephalitis virus in Japan, particularly the results of surveys in every interepidemic season from 1964 to 1976. Trop. Med. (Nagasaki) 20(2):81-96. In Jap., Engl. Sum.

Hsu, S. H., Huang, W. C. and Cross, J. H. 1978. The isolation of Japanese encephalitis virus from Taiwan mosquitoes by mosquito cell cultures and mouse inoculation. J. Med. Ent. 14(6):698-701.

Liu, E. and Coauthors. 1976. The preventive efficacy of Japanese B encephalitis GP4 attenuated vaccine to stillbirth of the sow. Taiwan J. Vet. Med. and Animal Husb. No. 29:28-29. In Chin., Engl. Sum.

Arboviruses—Encephalitis—VEE

Ferguson, J. A., Reeves, W. C., Milby, M. M. and Hardy, J. L. 1978. Study of homologous and heterologous antibody responses in California horses vaccinated with attenuated Venezuelan equine encephalomyelitis vaccine (strain TC-83). Amer. J. Vet. Res. 39(3):371-376.

Gangeini, J. D. and Cole, F. E., Jr. 1978. Venezuelan equine encephalomyelitis virus aggregation and immunogenicity following freeze-drying. J. Biological Standardization 6(2):117-120.

Gutiérrez Vera, E. 1977. Venezuelan encephalitis in Ecuador. Epidemic outbreak of 1972. Rev. Ecuatoriana Hig. y Med. Trop. 30(2):169-187. In Sp., Engl. Sum.

Jahrling, P. B., DePaoli, A. and Powanda, M. C. 1978. Pathogenesis of a Venezuelan encephalitis virus strain lethal for adult white rats. J. Medical Virol. 2(2):109-116.

Arboviruses—Semliki Forest

Chew-Lim, M. 1978. Lethal encephalitis in 14-day-old mice given avirulent Semliki Forest virus. Vet. Path. 15(3):393-399.

Dimmock, N. J. and Kennedy, S. I. G. 1978. Prevention of death in Semliki Forest virus-infected mice by administration of defective-interfering Semliki Forest virus. J. General Virol. 39(2):231-242.

Glanville, N., El Lachmi, B., Smith, A. E. and Kääriäinen, L. 1978. Tryptic peptide mapping of the nonstructural proteins of Semliki Forest virus and their precursors. Biochimica et Biophysica Acta 518(3):497-506.

Kääriäinen, L., Sawicki, D. and Gomatos, P. J. 1978. Cleavage defect in the non-structural polyprotein of Semliki Forest virus has two separate effects on virus RNA synthesis. J. General Virol. 39(3):463-473.

Schwarz, R. T., Schmidt, M. F. G. and Lehle, L. 1978. Glycosylation *in vitro* of Semliki-Forest-virus and influenza-virus glycoproteins and its suppression by nucleotide-2-deoxy-hexose. Eur. J. Biochem. 85(1):163-172.

Wiley, D. C. and von Bonsdorff, C. H. 1978. Three-dimensional crystals of the lipid-enveloped Semliki Forest virus. J. Molecular Biol. 120(3):375-379.

Woodward, C. G., Marshall, I. D. and Smith, H. 1977. Investigations of reasons for the avirulence of the A7 strain of Semliki Forest virus in adult mice. Brit. J. Expt. Path. 58(6):616-624.

Arboviruses—Sindbis

Frey, T. K. and Strauss, J. H. 1978. Replication of Sindbis virus. VI. Poly(A) and poly(U) in virus-specific RNA species. Virology 86(2):494-506.

Mento, S. J. and Stollar, V. 1978. Effect of ouabain on Sindbis virus replication in ouabain-sensitive and ouabain-resistant *Aedes albopictus* cells (Singh). Virology 87(1):58-65.

Arboviruses—West Nile

Darwish, M. A., Iman, I. Z. E. and Amer, T. 1977. Reactions of Egyptian human and rodent sera to Langat virus antigens. Egypt. Pub. Health Assoc. J. 52(1):51-58. [West Nile virus included.]

FILARIASIS

Chandra, R. and Coauthors. 1978. *Brugia malayi* infective larval whole worm antigen in the diagnosis of filariasis by skin test. Indian J. Med. Res. 68(July):61-66.

Chandrasoma, P. T. and Mendis, K. N. 1978. Filarial infection of the breast. Amer. J. Trop. Med. and Hyg. 27(4):770-773. [*Wuchereria bancrofti*.]

Desowitz, R. S., Oothuman, P. and Denham, D. A. 1978. Studies with *Brugia pahangi*. 16. Precipitation antibody in infected cats detected by counterimmunoelectrophoresis. J. Helminthol. 52(2):127-130.

Dufour, B. and Lepage, T. 1978. A rare cause of hematuria: filariasis. J. Urol. Nephrol. (Paris) 84(3):231-235. In Fr. [Type of filariasis not given.]

Dutta, S. N. and Diesfeld, H. J. 1978. Indirect immunofluorescence test against *Dipetalonema viteae* in detection of filariasis in Dhanbad coalmines area. Indian J. Med. Res. 67(April):553-561.

Jaffe, J. J. and Chrin, L. R. 1978. Methylene-tetrahydrofolate dehydrogenase and reductase activity in normal and *Brugia pahangi*-infected *Aedes aegypti*. J. Parasitol. 64(4):661-668.

McGreevy, P. B., Bryan, J. H., Oothuman, P. and Kolstrup, N. 1978. The lethal effects of the cibarial and pharyngeal armatures of mosquitoes on microfilariae. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):361-368. [*W. bancrofti* and *B. pahangi*.]

Misra, S. S. and Dwivedi, M. P. 1977. A note on short and long course therapies with diethylcarbamazine in human filarial infection. J. Commun. Dis. 9(2):141-142.

Mukherjee, D. R., Gupta, A. and Sengupta, P. 1977. Solitary filarial breast lump. Indian Med. Assoc. J. 69(2):36-38. [*Wuchereria bancrofti*.]

Nigam, P., Goyal, B. M., Mishra, D. N. and Samuel, K. C. 1977. Reaction in leprosy complicated by filariasis. Leprosy in India 49(3):344-348. [Type of filariasis not mentioned.]

Oothuman, P., Denham, D. A., McGreevy, P. B. and Nelson, G. S. 1978. Studies with

Brugia pahangi. 15. Cobalt 60 irradiation of the worm. J. Helminthol. 52(2):121-126.

Rao, C. K. 1977. Current knowledge on selected aspects in the epidemiology of bancroftian filariasis in India. J. Commun. Dis. 9(4):185-191.

Rao, C. K., Das., M. and Rao, C. K. 1977. Diethylcarbamazine in the prevention of filaria (bancroftian) disease. J. Commun. Dis. 9(2):132-133.

Roychowdhury, S. 'P., Babu, C. S. and Narasimham, M. V. V. L. 1977. Effect of diethylcarbamazine on liver function. J. Commun. Dis. 9(4):177-184.

Section of Parasitology, Tzunyi Medical College, Guizhou. 1977. Experimental transmission of periodic *Brugia malayi* to *Meriones unguiculatus*. Acta Zool. Sinica 23(2):219-230. In Chin.

Senko, I. A. and Ilyin, I. M. 1978. Surgical treatment of lymph scrotum in 3d-stage wuchereriasis. Klin. Khirurg. (Kiev) No.1:74. In Rus.

Sethumadhavan, K. V. P. and Coauthors. 1978. Clearance of microfilaraemia among bancrofti carriers after diethylcarbamazine. Indian J. Med. Res. 67(May):759-762.

Shantung Institute of Parasitic Diseases and Tenghsien County Anti-epidemic Station. 1977. Filariasis control in building Tachai-type counties. Chinese Med. J. 3(2):107-108. In Engl. [Bancroftian.]

Sharma, S. P., Das, M. and Rao, C. K. 1977. Current estimates of filariasis problem in India. J. Commun. Dis. 9(2):111-116. [Bancroftian.]

Suzuki, T. and Seregeg, I. G. 1978. A mass dissection technique for determining infectivity rate of filariasis vectors. WHO/VBC/78.691,WHO/FIL/78.151. 6 pp.

Weller, P. F. 1978. Cell-mediated immunity in experimental filariasis: lymphocyte reactivity to filarial stage-specific antigens and to B- and T-cell mitogens during acute and chronic infection. Cellular Immunol. 37(2):369-382.

World Health Organization. 1977. Special Programme for Research and Training in Tropical Diseases. Report of the first meeting of the scientific working group on filariasis. Geneva, 31 January—4 February 1977. TDR/MPD/SWG-FIL(1)/77.3, 30 pp.

Filariasis—Dirofilaria

Blodi, F. C. and Saparoff, G. R. 1977. A dirofilaria granulom of the lid and the orbit. Klin. Monatsbl. f. Augenheilkunde

- 171(2):222-224. In Ger., Engl. Sum.
- Bradley, R. E. 1978. Response to criticism of the use of levamisole. Modern Vet. Pract. 59(5):334.
- Christensen, B. M. 1977. Observations on the epidemiology of *Dirofilaria immitis* in urban Ames, Iowa. Helminthol. Soc. Wash. Proc. 44(2):226-228.
- Christensen, B. M. and Hollander, A. L. 1978. Effect of temperature on vector-parasite relationships of *Aedes trivittatus* and *Dirofilaria immitis*. Helminthol. Soc. Wash. Proc. 45(1):115-119.
- Hansen, C. P. 1978. The sudden rise of dog heartworm (*Dirofilaria immitis*) to a serious pest level in San Mateo County, Calif. Mosquito and Vector Cont. Assoc. Proc. 46:15-16.
- Ishihara, K., Ojima, M., Kitagawa, H. and Suganuma, Y. 1978. Studies on serum free cholesterol concentration and serum lecithin cholesterol acyltransferase activity in canine dirofilariasis. Jap. J. Vet. Sci. 40(2):171-183.
- Otto, G. F. 1978. Rebuttal concerning levamisole. Modern Vet. Pract. 59(5):328, 333-334.
- Payan, H. M. 1978. Human infection with *Dirofilaria*. Arch. Dermatol. 114(4):593-594. [D. *tenuis*.]
- Schillhorn van Veen, T. W. and Blotkamp, J. 1978. Histochemical differentiation of microfilariae of *Dipetalonema*, *Dirofilaria*, *Onchocerca* and *Setaria* spp. of man and domestic animals in the Zaria area (Nigeria). Tropenmed. u Parasitol. 29(1):33-35.
- Thornton, J. G. 1978. Heartworm invasion of the canine eye. Modern Vet. Pract. 59(5):373-374.
- Welch, J. S. and Dobson, C. 1978. Immunodiagnosis of parasitic zoonoses: comparative efficacy of three immunofluorescence tests using antigens purified by affinity chromatography. Roy. Soc. Trop. Med. and Hyg. 72(3):282-288. [Includes *Dirofilaria immitis*.]
- ### MALARIA
- Armstrong, J. C. 1978. Susceptibility to vivax malaria in Ethiopia. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):342-344.
- Avery, J. G. 1978. Malaria in the Solomon Islands. Practitioner 220(1320):942-949.
- Azubuike, J. C., Izuora, G. I. and Obi, G. O. 1977. Anaemia in non-sickling Nigerian children around Enugu. Trop. and Geog. Med. 29(4):365-368. [In connection with malaria.]
- Basu, T., Mukherjee, S. and Mukherjee, K. L. 1978. Host parasite relationship in bird malaria—haemoglobin and serum composition in susceptible and resistant birds. Indian J. Med. Res. 67(May):744-753.
- Bettini, S., Gradoni, L., Cocchi, M. and Tamburro, A. 1978. Rice culture and *Anopheles labranchiae* in central Italy. WHO/MAL/78.897, WHO/VBC/78.686. 6 pp.
- Bouree, P. and Fouquet, E. 1978. Paludisme: contamination directe interhumaine. Nouv. Presse Méd. 7(21):1865.
- Clark, I. A. 1978. Does endotoxin cause both the disease and parasite death in acute malaria and babesiosis? Lancet 8080:75-77.
- Coloigner, M., Treguer, H., Le Gac, A. and Le Bihan, G. 1978. Paludisme contracté en France. Nouv. Presse Méd. 7(21):1865.
- Costin, C. 1978. Malaria surveillance in Israel. Israel J. Med. Sci. 14(5):521-522.
- Daiber, A. and Anguita, T. 1978. Malaria in the jet era. Rev. Med. Chile (1):66. In Sp.
- Deugnier, Y. and Coauthors. 1977. Hépatite paludéenne. A propos d'un cas. Sem. Hopitaux (Paris) 53(44):2559-2562. [In connection with malaria.]
- Elton, P. and Cornell, J. 1978. Study of otitis media and malaria among pyrexic attenders of an under-fives clinic. J. Trop. Med. and Hyg. 81(6):110-112.
- Fabianowski, J. and Deron, Z. 1978. Imported malaria. Report of five cases. Przeglad Epidemiol. 32(2):249-251. In Pol., Engl. Sum.
- Freeman, R. R. and Parish, C. R. 1978. Polyclonal B-cell activation during rodent malarial infections. Clin. and Expt. Immunol. 32(1):41-45.
- Friedman, M. J. 1978. Erythrocytic mechanism of sickle cell resistance to malaria. Natl. Acad. Sci. USA Proc. 75(4):1994-1997.
- Gear, J. H. S., Fripp, P. J., Cassel, R. and Miller, B. 1978. The treatment of malaria. South Afr. Med. J. 53(23):921.
- Godfrey, D. G. 1978. Identification of economically important parasites. Nature (London) 273(5664):600-604. [Malaria included.]
- Greenwood, B. M., Stratton, D. and Williamson, W. A. 1978. A study of the role of immunological factors in the pathogenesis of the anaemia of acute malaria. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):378-385.
- Gupte, S. 1976. The return of malaria. Indian Practitioner 29(3):175-176.
- Januszkiwicz, J., Dziubinski, D. and Szczepanski, M. 1978. Practical remarks on imported malaria. Przeglad Epidemiol. 32(2):241-248. In Pol., Engl. Sum.

- Kershaw, W. E. and Coauthors. 1978. Changing patterns of imported infections at the Monsall Hospital for Infectious Diseases, Manchester. *Roy. Soc. Trop. Med. and Hyg. Trans.* 72(4):437-438. [Includes malaria.]
- Krafsur, E. S. and Armstrong, J. C. 1978. An integrated view of entomological and parasitological observations on falciparum malaria in Gambela, Western Ethiopian Lowlands. *Roy. Soc. Trop. Med. and Hyg. Trans.* 72(4):348-356.
- Krotoski, W. A. and Coauthors. 1978. Falciparum malaria in seamen. *Amer. Med. Assoc. J.* 239(26):2778-2779.
- Kulagin, Yu. I. 1978. On the prevalence and control of some parasitic diseases in the Sudan Republic. *Med. Parazit. i Parazit. Bolezni* 47(3):91-96. In Rus., Engl. Sum.
- Kuvim, S. F. 1978. Introductory remarks. *Israel J. Med. Sci.* 14(5):506-507. [Malaria symposium.]
- Lainson, R. and Coauthors. 1976. Preliminary entomological and parasitological studies in Humboldt, Aripuana, Mato Grosso State, Brazil. *Acta Amazonica* 6(4 Supl.):55-60. [Malaria included.]
- Lambrecht, A. J., Snoeck, J. and Timmermans, U. 1978. Transient an-alpha-lipoproteinaemia in man during infection by *Plasmodium vivax*. *Lancet* 8095:1206.
- Lapierre, J. and Coauthors. 1977. Recrudescence of imported malaria. *Nouv. Presse Méd.* 6(39):3625-3626. In Fr., Engl. Sum.
- Le Bras, J., Ricour, A., Savel, J. and Payet, M. 1978. Diagnostic cytologique du paludisme grâce à la concentration des hématies parasitées. *Nouv. Presse Méd.* 7(16):1400-1401.
- Loban, K. M. and Polozok, E. S. 1978. On errors in diagnosing imported malaria. *Sovetskaya Med. No. 5*:59-61. In Rus.
- Lysenko, A. Ya., Alekseeva, M. I., Sidorova, A. D., Smirnova, V. V. 1978. On imported malaria in the Soviet and foreign citizens. *Sovetskaya Med. No. 5*:62-65. In Rus., Engl. Sum.
- Lysenko, A. Ya. and Coauthors. 1978. The results of immunological survey of the Moldavian SSR population in connection with cases of quartan malaria inoculata. *Med. Parazit. i Parazit. Bolezni* 47(3):77-84. In Rus., Engl. Sum.
- Mansueto, S. 1978. Clinical problems in current malaria. Considerations apropos of 2 cases. *Minerva Med.* 69(6):409-416. In Ital., Engl. Sum.
- Marinov, R. 1977. Current aspects of the malaria problem. *Rev. Med-Chir. Soc. Med.* Nat. Iasi 81(2):181-185. in Rum.
- Mattingly, P. F. 1976. Evolution of the malarias: the problems of origins. *Parasitologia* 18(1-3):1-8.
- McGregor, I. A. 1978. Topical aspects of the epidemiology of malaria. *Israel J. Med. Sci.* 14(5):523-536.
- Osuhor, P. C. and Ereme, D. V. E. 1977. Malariormetric indices of infants, children and young adults (under 20 years) in Malumfashi, Northern Nigeria. *J. Commun. Dis.* 9(4):143-149.
- Pan American Health Organization. 1978. Final report PAHO Directing Council XXV Meeting. WHO Regional Committee XXIX Meeting Pan Amer. Health Organ. Off. Doc. No. 152, 97 pp. [Malaria included.]
- Pattanayak, S., Rahman, S. J., Samnotra, K. G. and Kalra, N. L. 1977. Changing pattern of malaria transmission in urban Delhi. *J. Commun. Dis.* 9(4):150-158.
- Ramachandra Rao, T. 1977. Containment of malaria. *J. Commun. Dis.* 9(2):83-92.
- Rosenberg, Y. J. 1978. Autoimmune and polyclonal B cell responses during murine malaria. *Nature (London)* 274(5667):170-172.
- Runyan, T. E. and Ostberg, R. C. 1977. An unusual macular lesion associated with malaria. *Ann. of Ophthalmol.* 9(12):1521-1525.
- Russo, A., Donaldson, P. T. and Lillie, R. D. 1978. Lower azure B methylene blue ratios in Giemsa type blood and malaria stains. *Stain Technol.* 53(1):37-41.
- Sitprija, V., Vongsthongsri, M., Poshyachinda, V. and Arthachinta, S. 1978. Pathogenesis of renal failure in malaria. *Med. Assoc. Thai. J.* 61(Suppl 1):71-73.
- Taylor, D. W. and Siddiqui, W. A. 1978. Effect of falciparum malaria infection on the *in vitro* mitogen responses of spleen and peripheral blood lymphocytes from owl monkeys. *Amer. J. Trop. Med. and Hyg.* 27(4):738-742.
- Van Ros, G., Moors, A., De Vlieger, M. and De Groof, E. 1978. Hemoglobin A₂ levels in malaria patients. *Amer. J. Trop. Med. and Hyg.* 27(4):659-663.
- Vernes, A. and Coauthors. 1978. Paludisme congénital à *Plasmodium vivax*. Un cas. *Nouv. Presse Méd.* 7(22):1960.
- Williamson, W. A. and Gilles, H. M. 1978. Malumfashi Endemic Diseases Research Project. II. Malariorometry in Malumfashi, Northern Nigeria. *Ann. Trop. Med. and Parasitol.* 72(4):323-328.
- Williamson, W. A. and Greenwood, B. M.

1978. Impairment of the immune response to vaccination after acute malaria. *Lancet* 8087:1328-1329.
- World Health Organization. 1977. Special Programme for Research and Training in Tropical Diseases. Annual report 1977: scientific working groups on malaria. TDR/AR(1)/77.2, 6 pp. [See also TDR/AR(1)/77.2a Rev. 1.]
- Malaria—Cerebral*
- Toro, G. and Román, G. 1978. Cerebral malaria. A disseminated vasculomyelinopathy. *Arch. Neurology* 35(5):271-275.
- Malaria Control and Eradication*
- Beck, A. 1977. Medicine and society in Tanganyika 1890-1930. A historical inquiry. *Amer. Philos. Soc. Trans.* 67(3):1-59. [Includes malaria control.]
- Gabaldon, A. 1978. What can and cannot be achieved with conventional anti-malaria measures. *Amer. J. Trop. Med. and Hyg.* 27(4):653-658.
- Greenblatt, C. L. 1978. Historical trends in the antimalarial campaign in Palestine and Israel. *Israel J. Med. Sci.* 14(5):508-517.
- Montalván Cornejo, J. A. 1977. Personal contribution to the study of malaria in Ecuador and to the campaign for its eradication. *Rev. Ecuatoriana Hig. y Med. Trop.* 30(1):71-94. In Sp.
- Saliternik, Z. 1978. Reminiscences of the history of malaria eradication in Palestine and Israel. *Israel J. Med. Sci.* 14(5):518-520.
- Thi Phan, V. 1977. The antimalaria fight and the eradication of malaria in the Socialist Republic of Vietnam. *Sante Publique* (Bucarest) 20(2):147-156. In Fr., Engl. Sum.
- Valladares G., R. 1977. Cobertura de los servicios generales de salud en áreas rurales y sus relaciones con los programas de malaria. *Bol. de la Dirección de Malariol. y San. Amb.* 17(4):301-307.
- World Health Organization. 1977. Special Programme for Research and Training in Tropical Diseases. Report of a workshop on the biological control of disease vectors held in Kaduna, Nigeria, 4-7 April 1977. TDR/VBC/KAD/77.3, 10 pp. [Malaria included.]
- Malaria—Immunology*
- Ambroise-Thomas, P. 1978. Diagnosis and seroepidemiologic study of malaria by immunofluorescence, indirect hemagglutina-
- tion and immunoenzymology. *Israel J. Med. Sci.* 14(6):690-691.
- Bitzan, M. and Spira, D. T. 1978. Lymphocyte trapping and malaria in *Plasmodium berghei*-infected mice. *Israel J. Med. Sci.* 14(6):673-681.
- Brooks, C. and Kreier, J. P. 1978. Role of the surface coat in *in vitro* attachment and phagocytosis of *Plasmodium berghei* by peritoneal macrophages. *Infect. and Immunology* 20(3):827-835.
- Brown, K. N. 1978. Induction of protective immunity to asexual erythrocytic malaria parasites. *Israel J. Med. Sci.* 14(5):571-574.
- Cohen, S. 1978. Acquired immunity to the erythrocytic stage of malaria. *Israel J. Med. Sci.* 14(5):537-541.
- Cox, F. E. G. 1978. Specific and nonspecific immunisation against parasitic infections. *Nature (London)* 273(5664):623-626.
- Eling, W. M. C. 1978. Malaria immunity and premunition in a *Plasmodium berghei* mouse model. *Israel J. Med. Sci.* 14(5):542-553.
- Endardjo, S., Boonpucknavig, S., Boonpucknavig, V. and Bhamaraprabhat, N. 1978. Immunopathological studies of *Plasmodium berghei* *berghei*-infected mice: effect of cyclophosphamide. *J. Trop. Med. and Hyg.* 81(2-3):25-31.
- Frankenburg, S. and Greenblatt, C. L. 1978. Cellular changes in the bone marrow of *Plasmodium berghei*-infected mice. *Israel J. Med. Sci.* 14(5):582-589.
- Golenser, J. and Coauthors. 1978. Studies on the role of antibodies against sporozoites in *Plasmodium berghei* malaria. *Israel J. Med. Sci.* 14(5):606-610.
- Greenblatt, C. L. and Coauthors. 1978. Session VI: Summing-up of the symposium. *Israel J. Med. Sci.* 14(6):712-717. [Malaria symposium.]
- Greenblatt, C. L. and Jacobson, R. L. 1978. Speculation on the use of adoptive immunity in malarial vaccination. *Israel J. Med. Sci.* 14(5):596-598.
- Greenblatt, C. L. and Spira, D. T. 1978. Preface. *Israel J. Med. Sci.* 14(5):503-504. [Preface to International Symposium on Immunology and Immunopathology of Malaria I.]
- Hamburger, J. and Zuckerman, A. 1978. *Plasmodium berghei*. III. The partial separation of a putative species-specific antigen from a soluble extract. *Israel J. Med. Sci.* 14(5):557-562.
- Hunponu-Wusu, O. O., Reddy, S., Osuhor, P. C. and Aiyedun, B. A. 1978. Studies of immunoglobulin M and malarial antibodies in

- Nigerians. J. Trop. Med. and Hyg. 81(2-3):42-44.
- Jensen, J. B. and Trager, W. 1978. Some recent advances in the cultivation of *Plasmodium falciparum*. Israel J. Med. Sci. 14(5):563-570.
- Jerusalem, C. 1978. Immunopathology of malaria. Israel J. Med. Sci. 14(6):620-650.
- Kilejian, A. 1978. Histidine-rich protein as a model malaria vaccine. Science 201 (4359):922-924.
- Lucas, A. O. 1978. Dedication. Israel J. Med. Sci. 14(5):505. [International Symposium on Immunology and Immunopathology of Malaria. I.]
- McBride, J. S. and Micklem, H. S. 1977. Immunosuppression in murine malaria. II. The primary response to bovine serum albumin. Immunology 33(2):253-259.
- McDonald, V. and Phillips, R. S. 1978. *Plasmodium chabaudi* in mice. Adoptive transfer of immunity with enriched populations of spleen T and B lymphocytes. Immunology 34(5):821-830.
- McGregor, I. A. and Williams, K. 1978. Value of the gel-precipitation test in monitoring the endemicity of malaria in a rural African village. Israel J. Med. Sci. 14(6):697-706.
- Meuwissen, J. H. E. T. 1978. Comments on seroepidemiologic studies. Israel J. Med. Sci. 14(6):692-696.
- Meuwissen, J. H. E. T. 1978. Introductory remarks on seroepidemiology and immunodiagnosis of malaria. Israel J. Med. Sci. 14(6):687-689.
- Meuwissen, J. H. E. T., Golenser, J. and Verhave, J. P. 1978. Development of effective antisporozoite immunity by natural bites of *Plasmodium berghei*-infected mosquitoes in rats under prophylactic treatment with various drug regimens. Israel J. Med. Sci. 14(5):601-605.
- Monjou, L., Richard-Lenoble, D., Druilhe, P. and Gentilini, M. 1978. Influence de la sécheresse sur l'immunité antipaludéenne. Nouv. Presse Méd. 7(19):1651.
- Nardin, E. H. and Nussenzweig, R. S. 1978. Stage-specific antigens on the surface membrane of sporozoites of malaria parasites. Nature (London) 274(5666):55-57.
- Onyewotu, I. I. 1978. Immune complexes in healthy Nigerians. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):386-388. [Malaria included.]
- Osunkoya, B. O. 1978. Immunopathology of human malaria. Israel J. Med. Sci. 14(6):617-619.
- Parashar, A., Aikat, B. K., Sehgal, S. and Naik, S. 1977. Cell mediated and humoral immunity in experimental *Plasmodium berghei* infection. Roy. Soc. Trop. Med. and Hyg. Trans. 71(6):474-480.
- Poels, L. G., Van Niekerk, C. C. and Franken, M. A. M. 1978. Plasmodial antigens exposed on the surface of infected reticulocytes: their role in induction of protective immunity in mice. Israel J. Med. Sci. 14(5):575-581.
- Poels, L. G., Van Niekerk, C. C. and Jerusalem, C. 1978. Glomerulopathy in mice infected with *Plasmodium berghei*. Induction of an autoimmune process. Israel J. Med. Sci. 14(6):651-654.
- Rieckmann, K. H., Mrema, J. E. and Campbell, G. H. 1978. Malaria immunity induced by infection with cultured parasites of *Plasmodium falciparum*. J. Parasitol. 64(4):750-752.
- Spira, D. T. 1978. Immunodiagnosis of malaria: prospects for the future. Israel J. Med. Sci. 14(6):707-711.
- Van Zon, A., Eling, W. and Jerusalem, C. 1978. Histo—and immunopathology of a malaria (*Plasmodium berghei*) infection in mice. Israel J. Med. Sci. 14(6):659-672.
- Verhave, J. P. 1978. Introductory remarks on immunization with sporozoites. Israel J. Med. Sci. 14(5):599-600.
- Verhave, J. P., Meuwissen, J. H. E. T. and Golenser, J. 1978. Cell-mediated reactions and protection after immunization with sporozoites. Israel J. Med. Sci. 14(5):611-616.
- Weiss, M. L. 1978. Immune complexes in the lungs of mice infected with *Plasmodium berghei*. Israel J. Med. Sci. 14(6):655-658.
- Weiss, M. L. 1978. Infectivity and immunogenicity of *Plasmodium berghei*. Israel J. Med. Sci. 14(5):554-556.
- Weiss, M. L. 1978. Specific arming of macrophages and the microarchitecture of the spleen. Israel J. Med. Sci. 14(6):682-686.
- Weissberger, H. and Spira, D. T. 1978. Lymphoblast transformation in rats convalescent from infection with *Plasmodium berghei*. Israel J. Med. Sci. 14(5):590-595.
- World Health Organization. 1976. Special Programme for Research and Training in Tropical Diseases. Report of the scientific working group on the immunology of malaria. TDR/IM/76.3, 13 pp.
- See also Williamson and Greenwood in Malaria Section.
- Malaria—Parasites*
- Bennett, G. F. and White, E. M. 1977. Condiciones climáticas severas y recaídas de

- hemosporidios aviarios en una población de passeriformes de New Brunswick. Bol. de la Dirección de Malaria. y San. Amb. 17(4):274-279. Engl. Sum. [Plasmodium included.]
- Carter, R. 1978. Studies on enzyme variation in the murine malaria parasites *Plasmodium berghei*, *P. yoelii*, *P. vinckeii* and *P. chabaudi* by starch gel electrophoresis. Parasitology 76(3):241-267.
- Dashkova, N. G. and Rasnitsyn, S. P. 1978. Comparison of infection rate of mosquitoes with malaria parasites at bloodsucking on man and through a biomembrane. Med. Parazit. i Parazit. Boleznii 47(3):88-91. In Rus., Engl.Sum.
- Gabaldon, A. and Ulloa, G. 1977. *Plasmodium (Haemamoeba) tejerai* sp. n. del pavo doméstico (*Meleagris gallopavo*) de Venezuela. Bol. de la Dirección de Malaria. y San. Amb. 17(4):255-273. [Engl. Sum.]
- Jensen, J. B. and Trager, W. 1978. *Plasmodium falciparum* in culture: establishment of additional strains. Amer. J. Trop. Med. and Hyg. 27(4):743-746.
- Lopez Antuñano, F. J. and Palmer, T. T. 1978. Sensitivity of Duffy negative erythrocytes in *Aotus* monkeys to *Plasmodium vivax*. Roy. Soc. Trop. Med. and Hyg. Trans. 72(3):319.
- Martin, S. K., Miller, L. H., Nijhout, M. M. and Carter, R. 1978. *Plasmodium gallinaceum*: induction of male gametocyte exflagellation by phosphodiesterase inhibitors. Expt. Parasitol. 44(2):239-242.
- Moyou-Somo, R. and Coauthors. 1978. Modifications de *Plasmodium berghei* chez la souris maintenue dans une atmosphère chaude. Compt. Rend. Acad. Sci. Paris Ser. D 286(18):1315-1317.
- Nagaty, H. F., Elahi, R. and Mohajeri, M. 1978. Parasitological investigations on patients in Mash'had, Iran. Ann. Trop. Med. and Parasitol. 72(4):369-375. [Plasmodium included.]
- Sinden, R. E., Canning, E. U., Bray, R. S. and Smalley, M. E. 1978. Gamete development in *Plasmodium falciparum*. Roy. Soc. London Proc. Ser. B 201(1145):375-399.
- Spencer, H. C. and Coauthors. 1978. The Duffy blood group and resistance to *Plasmodium vivax* in Honduras. Amer. J. Trop. Med. and Hyg. 27(4):664-670.
- Sterling, C. R. 1978. A rapid method for concentrating spleen-derived schizonts in *Plasmodium berghei* malaria. J. Parasitol. 64(4):747-749.
- Takahashi, Y. and Sherman, I. W. 1978. *Plasmodium lophurae*: cationized ferritin staining, an electron microscope cytochemical method for differentiating malarial parasite and host cell membranes. Expt. Parasitol. 44(2):145-154.
- Trager, W. and Jenson, J. B. 1978. Cultivation of malarial parasites. Nature (London) 273(5664):621-622.
- Wellde, B. T. and Diggs, C. L. 1978. *Plasmodium berghei*: biological variation in immune serum-treated mice. Expt. Parasitol. 44(2):197-201.
- Williamson, J., Scott-Finnigan, T. J. and Hommel, M. 1978. A simple perfusion system for parasite culture: experiments with *Plasmodium knowlesi*. Roy. Soc. Trop. Med. and Hyg. Trans. 72(4):439-440.
- Malaria—Therapeutics and Antimalarial*
- Al-Tawil, N. 1977. Response of falciparum malaria to a standard regimen of chloroquine in Vientiane, Lao People's Democratic Republic. J. Trop. Med. and Hyg. 80(12):230-237.
- Al-Tawil, N. 1978. Clearance of falciparum parasitaemia with a single dose of sulfadoxine-pyrimethamine in Vientiane, Lao People's Democratic Republic. WHO/MAL/78.898, 6 pp.
- Coulaud, J. P., Mechali, D. and Lemercier, Y. 1978. A propos de la neuromyopathie à la chloroquine. Nouv. Presse Méd. 7(20):1748.
- Drenckhahn, D. 1978. Anterior polar cataract and lysosomal alterations in the lens of rats treated with the amphiphilic lipidosis-inducing drugs chloroquine and chlorphenetermine. Virchows Arch. B Cell Path. 27(3):255-266.
- Elslager, E. F. and Coauthors. 1978. Folate antagonists. 12. Antimalarial and antibacterial effects of 2,4-diamino-6-[*(aralkyl and alicyclic)* thio-, sulfinyl-, and sulfonyl] quinazolines. J. Medicinal Chem. 21(7):639-643.
- Korolkovas, A., Ferreira, E. I., Divino Lima, J. and Kretli, A. U. 1978. Antimalarial activity of saccharide polymers of dapsone and sulfadimethoxine. Chemotherapy 24(4):231-235.
- Kratz, C. M., Levitsky, D. A. and Lustick, S. 1978. Differential effects of quinine and sucrose octa acetate on food intake in the rat. Physiol. and Behavior 20(5):665-667.
- Landauer, W. 1978. Cholinomimetic teratogens. VI. The interaction of cholinomimetic teratogens with the antimalarial drugs

- chloroquine and chlorguanide. *Teratology* 17(3):335-339.
- Nickel, P. and Coauthors. 1978. Antimalarial 6-aminoquinolines/VIII. 2- and 4-amino derivatives. *Arzneimittel-Forsch Drug Res.* 28-1(4):578-581. In Ger. Engl. Sum.
- Nickel, P., Zimmermann, R., Preßlinger, L. and Fink, E. 1978. Gegen Malaria wirksame 6-Aminochinoline. XI. 2-, 3- und 4-Alkyl-, Aryl- und Arylalkylderivate. *Arzneimittel-Forsch.* 28-1(5):723-731. In Ger., Engl. Sum.
- Razdan, R. K. and Coauthors. 1978. A new class of antimalarial drugs: derivatives of benzothiopyrans. *J. Medicinal Chem.* 21(7):643-649.
- Schmidt, L. H. 1978. *Plasmodium falciparum* and *Plasmodium vivax* infections in the owl monkey (*Aotus trivirgatus*). The courses of untreated infections. *Amer. J. Trop. Med. and Hyg.* 27(4):671-702.
- Schmidt, L. H. 1978. *Plasmodium falciparum* and *Plasmodium vivax* infections in the owl monkey (*Aotus trivirgatus*). II. Responses to chloroquine, quinine, and pyrimethamine. *Amer. J. Trop. Med. and Hyg.* 27(4):703-717.
- Schmidt, L. H. 1978. *Plasmodium falciparum* and *Plasmodium vivax* infections in the owl monkey (*Aotus trivirgatus*). III. Methods employed in the search for new blood schizonticidal drugs. *Amer. J. Trop. Med. and Hyg.* 27(4):718-737.
- Van den Bossche, H. 1978. Chemotherapy of parasitic infections. *Nature (London)* 273(5664):626-630.
- van der Kaay, H. J. and Zuidema, P. J. 1978. Malaria prophylaxis. *Ned. Tijdschr. v. Geneesk.* 122(8):274-277. In Dut.
- Várnai, F. and Ecker, A. 1977. Chemoprophylaxis of malaria. *Therapia Hung.* 25(4):131-133.
- World Health Organization. 1978. Malaria control—a reoriented strategy. *WHO Chron.* 32(6):222-230.
- Malaria—Antimalarials—Resistance*
- Khan, A. A. and Maguire, M. J. 1978. Relative chloroquine resistance of *P. falciparum* in Zambia. *Brit. Med. J.* 6128:1669-1670.
- Nguyen-Dinh, P. and Trager, W. 1978. Chloroquine resistance produced *in vitro* in an African strain of human malaria. *Science* 200(4348):1397-1398.
- Sucharit, S., Surathin, K., Tumrasvin, W. and Sucharit, P. 1977. Chloroquine resistant *Plasmodium falciparum* in Thailand: susceptibility of *Anopheles*. *Med. Assoc. Thai.* J. 60(12):648-654.
- Malaria—Vectors*
- Dzhavadov, R. B. and Coauthors. 1978. Susceptibility of *Anopheles maculipennis sacharovi* and *Anopheles maculipennis subalpinus* to infection with the agents of imported tropical malaria from Africa. *Med. Parazit. i Parazit. Bolezni* 47(3):84-87. In Rus., Engl. Sum.
- EXPERIMENTAL HOSTS OR VECTORS**
- Ramos, B. and Urdaneta-Morales, S. 1977. Hematophagous insects as vectors for frog trypanosomes. *Rev. de Biol. Trop.* 25(2):209-217. [Aedes aegypti and Culex pipiens included.]
- LIGHT AND OTHER TRAP STUDIES**
- Husbands, R. C. 1976. Light traps and the significance of collection data. *Soc. Vector Ecologists Bul.* 3:17-26. [Chiefly mosquitoes.]
- Milby, M. M., Kauffman, E. E. and Harvey, J. F. 1978. Conversion of CDC light trap indices to New Jersey light trap indices for several species of California mosquitoes. *Calif. Mosquito and Vector Cont. Assoc. Proc.* 46:58-60.
- Pae, C. M., Frommer, R. L., Chong, C. S. and Endris, R. G. 1976. The distribution and abundance of mosquitoes collected from light traps in the Republic of Korea during 1974 and 1975. *Korean Med. Assoc. J.* 19(5):398-403. In Engl.
- LITERATURE REFERENCES AND REVIEWS**
- Sollers-Riedel, H. 1978. Literature references to mosquitoes and mosquito-borne diseases. 1978—Part III. *Mosquito News* 38(3):429-448.
- BIOGRAPHY AND HISTORY**
- Bruce-Chwatt, L. J. 1977. Ronald Ross and his Swiss romance. *Acta Tropica* 34(4):287-291.
- Bruce-Chwatt, L. J. 1978. Tropical medicine—historical cartoon. *Roy. Soc. Trop. Med. and Hyg. Trans.* 72(4):446.
- Gilles, H. M. 1978. Dr. W. A. Williamson M. B., B. S., M.R.C.P., D.T.M. and H. Ann. *Trop. Med. and Parasitol.* 72(4):page unnumbered.

- Journal of Communicable Diseases. 1977. Dr. K. R. P. Singh (1930-1977). J. Commun. Dis. 9(2):unnumbered page.
- Knight, K. L. 1978. John D. DeCoursey. Mosquito News 38(3):428.
- Service, M. W. 1978. A short history of early medical entomology. J. Med. Ent. 14(6):603-626. [Malaria, filariasis and yellow fever included.]

SUBJECTS NOT COVERED BY OTHER HEADINGS

- Pest Control. 1978. CDC answers its critics. Pest Control 46(8):22-23,25,27,30. [Mosquitoes included.]
- Peters, R. F. 1978. The State of California vector and waste management program—an overview. Calif. Mosquito and Vector Cont. Assoc. Proc. 46:1-2.

BOOKLETS AND REPORTS

- American Society of Parasitologists. 1978. Program and abstracts of 53rd annual meeting. 108 pp.

- Direction Technique Laboratoire et Unités Opérationnelles. 1978. Rapport d'activité 1977. Entente Interdepart. pour Demoustication du Littoral Mediter. 117 pp. [Numerous species of mosquitoes included.]

- Loumagne, C. 1978. La végétation, indicateur des aires culicidogènes. Dans le complexe lagunaire Capitoul—Campignol—Ayrolle—Gruissan (Aude). Univ. des Sciences et Techniques du Languedoc, Montpellier. 608 pp. [Thesis.]

- Vigo, M. 1978. Laboratoire de chimie. Entente Interdepart. pour Demoustication du Littoral Mediter. Annexe II, pp. 1-8. [*Culex pipiens*.]

BOOKS

- Ebeling, W. 1975. Urban entomology. 695 pp., Los Angeles. Div. Agr. Sci., Univ. Calif. [Includes mosquitoes.]

U.S. POSTAL SERVICE STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION (Required by 39 U.S.C. 3626)			
1. TITLE OF PUBLICATION	2. ADDRESS OF PUBLISHER	3. DATE OF PUBLISHING	4. DATE OF FILING
Mosquito News	American Mosquito Control Assn., 5545 East Shields Ave., Fresno, CA 93727	Quarterly	Sept., 19, 1978
			\$15.00
5. LOCATION OF KNOWN OFFICE OF PUBLICATION (Street, City, County, State and ZIP Code) (Not printed)			
American Mosquito Control Assn., NY State Education Bldg., Albany, NY 12234			
6. NEAREST MAILING ADDRESS (Street, City, County, State and ZIP Code)			
American Mosquito Control Assn., 5545 East Shields Ave., Fresno, CA 93727			
7. NAMES AND COMPLETE ADDRESS OF PUBLISHER, EDITOR, AND MANAGING EDITOR			
American Mosquito Control Assn., 5545 East Shields Ave., Fresno, CA 93727			
8. ADDRESS OF EDITOR (Name and Address)			
Dr. W.E. Bickley, P.O. Box 75, Riverdale, MD 20840			
MAILING LIST SOURCE (Name and Address)			
9. OWNERS (If more than one organization, its name and address must be stated and also individually thereafter the names and addresses of stockholders owning or holding 1% or more of total amount of stock. If less than 1%, state name and address of each individual owner and the percentage of stock owned by each)			
NAME ADDRESS			
American Mosquito Control Assn., 5545 East Shields Ave., Fresno, CA 93727			
10. COUNTRY TO WHICH PUBLICATION IS SHIPPED AND TOTAL AMOUNT OF MONEY PAID FOR READING, THE INVEST OR USE OF WHICH IS RECEIVED BY PUBLISHER			
TOTAL AMOUNT OF MONEY PAID FOR READING, THE INVEST OR USE OF WHICH IS RECEIVED BY PUBLISHER			
NAME ADDRESS			
None			
11. FOR COMPLETION BY MEMBER ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL MAILING RATES (See 39 U.S.C. 3626)			
The purpose, function, and representative status of this organization and the names of the principal officers and employees (See 39 U.S.C. 3626)			
12. IF NO CHANGES IN MONTHLY CIRCULATION OR OWNERSHIP OCCURRED DURING PREVIOUS 12 MONTHS, CHECK HERE			
13. IF NO CHANGES IN MONTHLY CIRCULATION OR OWNERSHIP OCCURRED DURING PREVIOUS 12 MONTHS, CHECK HERE			
14. EXTENT AND NATURE OF CIRCULATION			
AVERAGE NO. COPIES EACH MONTH DURING PREVIOUS 12 MONTHS			
15. TOTAL NO. COPIES PRINTED (If Not Known)	2550	ACTUAL NO. COPIES OR SIMILAR STATEMENT	2500
16. MAIL CIRCULATION (Salesmen and Carriers, Street Vendors and Counter Sales)	None	17. OTHER CIRCULATION (Subscribers, Members, etc.)	None
18. MAIL SUBSCRIPTIONS	2358	19. TOTAL PAID CIRCULATION (Sum of 16 and 18)	2288
20. FREE DISTRIBUTION BY MAIL (Carriers or Other Means) (Samples, Complimentary, and Other Free Copies)	None	21. TOTAL DISTRIBUTION (Sum of 19 and 20)	2288
22. COPIES NOT DISTRIBUTED (Reason Uncounted, Spoiled After Printing)	192	23. RETURN FROM NEWS AGENTS	212
24. TOTAL (Sum of 15 and 22)	2550	25. SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER OR OWNER	Thomas D. Mulhern Executive Director
I, certify that the statements made by me above are correct and complete.			
26. FOR COMPLETION BY PUBLISHER MAILING AT SPECIAL RATES (See 39 U.S.C. 3626)			
No part of this publication may be reproduced without written permission from the publisher. Under the Copyright Act of 1976, permission to photocopy items for internal or personal use is granted by the copyright owner for users registered with the Copyright Clearance Center (CCC), 27 Congress St., Salem, MA 01970, for the flat fee indicated. Payment should be sent to CCC. In accordance with the provisions of this statute, I hereby request permission to mail the publication named in Item 1 at the postage rates permitted by 39 U.S.C. 3626.			
SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER OR OWNER			

FD Form No. 3526 (Rev. 1-71)

(See instructions on reverse)