

## LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

HELEN SOLLERS-RIEDEL<sup>1</sup>

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

### FUMIGANTS

Nakanishi, M., Kuriyama, T. and Kudo, A. 1970. Stability of a new pyrethroid: Kikuthrin. Studies on insecticide IV. Botyu-Kagaku 35(3):96-102. In Jap., Engl. Sum. [Mosquito-coils.]

### ADULTICIDES AND LARVICIDES

Barlow, W. and Hadaway, A. B. 1970. Chemical structure and physical properties of candidate insecticides in relation to residual toxicity to adult mosquitoes. Pesticide Sci. (London) 1(4): 117-119.

Beesley, W. N. and Peters, W. 1971. The insecticidal action of some sulfonamides. J. Econ. Ent. 64(4):897-899. [Mosquitoes included.]

Brooks, I. C., Haus, J., Blumenthal, R. R. and Davis, B. S., Jr. 1969. SBP-1382—a new synthetic pyrethroid. Soap and Chem. Spec. 45(3):62, 64, 66, 70, 72, 74; 45(4):49-50, 79. [Mosquitoes included.]

Cousserans, J. 1970. La démoustication du littoral Languedoc-Roussillon. Techniques et Sciences Municipales et Revue l'Eau (Paris) 65(7):298-305. [Aedes, Culex, Anopheles and Mansonia included.]

Dixon, R. D. and Coauthors. 1970. A guide for the control of mosquitoes in Alberta municipalities, parks, camps and resorts. Alberta Dept. Agr. Pub. 673-2, 9 pp. [Pages unnumbered.]

Duport, M., Sandescu, I. and Păun, S. 1971. Étude comparative de l'efficacité de divers insecticides sur des larves de Culicidae. Expériences de laboratoire et de terrain. WHO/VBC/71.288, 9 pp.

Francotte, J. 1970. Travaux de génie sanitaire: éradication des moustiques, hygiène des ports et des plages. Techniques et Sciences Municipales et Revue l'Eau (Paris) 65(7):283-288.

Gaaboub, I. A., Mansour, N. A. and Kamel, F. M. 1971. Evaluation of nine insecticides with three pyrethrin synergists against the mosquito *Culex pipiens fatigans* in Egypt. I. Egg, larval and pupal stages. WHO/VBC/71.289, 8 pp.

Golestan, J. 1970. Evaluation of bromophosethyl for the control of *Anopheles* sp. in southern Iran. Pesticide Sci. (London) 1(3):81-83.

- Gould, D. J. and Coauthors. 1971. Dengue control on an island in the Gulf of Thailand. I. Results of an *Aedes aegypti* control program. Amer. J. Trop. Med. and Hyg. 20(5):705-714.
- Graham, J. E. and Bradley, I. E. 1971. Changes in the age structure of *Culex pipiens fatigans* Wiedemann populations in Rangoon, Burma after intensive larvicide. WHO/VBC/71.301, 9 pp.
- Graham, J. E. and Coauthors. 1971. Studies on the control of *Culex pipiens fatigans* Wiedemann. WHO/VBC/71.268, 21 pp.
- Hayes, R. O., Holden, P. and Mitchell, C. J. 1971. Effects of ultra-low volume applications of malathion in Hale County, Texas. IV. Arbovirus studies. J. Med. Ent. 8(2):183-188.
- Holan, G. 1969. New halocyclopropane insecticides and the mode of action of DDT. Nature (London) 221(5185):1025-1029. [Aedes aegypti included.]
- Hudson, J. E. 1971. Assessment of methoxy-DDT as a residual spray against mosquitoes in verandah-trap huts at Magugu, Tanzania. Bul. Ent. Res. 60(4):615-630.
- Maw, M. G. and House, H. L. 1971. On capric acid and potassium capionate as mosquito larvicides in laboratory and field. Canad. Ent. 103 (10):1435-1440.
- Mount, G. A., Pierce, N. W. and Baldwin, K. F. 1971. Effectiveness of six promising insecticides for mosquito control. Mosquito News 31(3):394-396.
- Nakanishi, M. and Coauthors. 1970. Chemistry of a new pyrethroid: Kikuthrin. Studies on insecticide II. Botyu-Kagaku 35(3):87-91. In Jap., Engl. Sum. [Mosquitoes included.]
- \_\_\_\_\_, and \_\_\_\_\_. 1970. Insecticidal activity of a new pyrethroid: Kikuthrin. Studies on insecticide III. Botyu-Kagaku 35(3):91-96. In Jap., Engl. Sum. [Mosquitoes included.]
- Novák, D. 1971. Several field tests of Abate larvicides for *Aedes* control. Pest Articles and News Sum. 17(3):348-349.
- Ogami, H. and Coauthors. 1970. Insecticidal activity of a new synthetic chrysanthemic ester, 5-propargylfurfurl chrysanthemate (Prothrin). Botyu-Kagaku 35(2):45-55. In Jap., Engl. Sum. [Culex pipiens pallens.]
- Regnier, A. V., Jr. and Coauthors. 1971. Field studies of Gardona against *Aedes aegypti* in Puerto Rico. Mosquito News 31(3):360-370.
- Sullivan, W. N. and Coauthors. 1971. Worldwide studies on aircraft disinsection at "blocks away". WHO/VBC/71.299, 12 pp.

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- Taylor, R. T. and Schoof, H. F. 1971. Experimental field treatments with larvicides for control of *Anopheles*, *Aedes* and *Culex* mosquitoes. *J. Econ. Ent.* 64(5):1173-1176.
- \_\_\_\_ and \_\_\_\_\_. 1971. The relative effectiveness of malathion thermal aerosols and ground-applied ULV against three species of mosquitoes. *Mosquito News* 31(3):346-349.
- Wright, J. W. 1971. The WHO programme for the evaluation and testing of new insecticides. *WHO Bul.* 44(1/3):11-22. [Includes mosquitoes.]

#### VARIOUS TYPES OF CONTROL

- Bowers, W. S. 1971. Insect hormones and their derivatives as insecticides. *WHO Bul.* 44(1/3):381-389. [Mosquitoes included.]
- Cruickshank, P. A. 1971. Insect juvenile hormone analogues: effects of some terpenoid amide derivatives. *WHO Bul.* 44(1/3):395-396. [Mosquitoes included.]
- Gilbert, L. I. and Coauthors. 1971. Aspects of research on insect growth hormones. *WHO Bul.* 44(1/3):397-398.
- Staal, G. B. 1971. Practical aspects of insect control by juvenile hormone. *WHO Bul.* 44(1/3):391-394. [Mosquitoes included.]
- See also Laven and Aslamkhan in Genetics Section.

#### COST ANALYSIS

- Gabaldon, A. 1970. Los servicios sanitarios y el desarrollo socio-económico en la América Latina. *Bol. Inform. (Dir. de Malaria, y San. Amb.)* 10(1/2):25-43. [Malaria eradication and costs included.]

#### STERILIZATION METHODS

- Boston, M. D., Patterson, R. S. and Lofgren, C. S. 1970. Screening of chemosterilants against the southern house mosquito *Culex pipiens quinquefasciatus*. *Fla. Ent.* 53(4):215-218.
- Guthrie, J. E. and Brust, R. A. 1971. Sterilization of *Aedes aegypti* (L.) as result of chronic exposure to low doses of beta radiation. *Nature (London)* 232(5309):345-346.
- Klassen, W. and Creech, J. F. 1971. Suppression of pest population with sterile male insects. U. S. Dept. Agr. ARS Misc. Pub. No. 1182, 8 pp.
- Madhukar, B. V. R., Pillai, M. K. K. and Borkovec, A. B. 1971. Chemosterilization of the yellow-fever mosquito. 1. Laboratory evaluation of aziridinyl compounds by larval and pupal treatments. 2. Laboratory evaluation of phosphoramides by larval and pupal treatments. *J. Econ. Ent.* 64(5):1024-1027; 1027-1030.
- Patterson, J. W. 1971. Some effects of juvenile hormone mimics on *Aedes aegypti* and *Rhodnius prolixus*. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):435.

Smith, W. W. and Lee, L. J. 1971. Toxicities of thiotepe, tepe metepa and hempa to late aquatic stages of *Culex nigripalpus* Theobald. *Mosquito News* 31(3):390-394.

Weinbren, M. P. and Weinbren, B. M. 1970. Observations on the mosquito population in the irradiated forest at El Verde. In *A tropical rain forest. A study of irradiation and ecology at El Verde, Puerto Rico* (edited by Odum, H. T. and Pigeon, R. F.). E-12:159-167. [All sections of this huge work are paged separately.]

Whitten, M. J. 1971. Selection for polygamy and the sterile-insect technique. *J. Econ. Ent.* 64(5):1310-1311.

#### AEDES AEGYPTI ERADICATION

- Fraiha, H. 1968. Reinfestação do Brasil pelo *Aedes aegypti*. Considerações sobre o risco de urbanização do vírus da febre amarela silvestre na região reinfestada. *Inst. Med. Trop. S. Paulo Rev.* 10(5):289-294. Engl. Sum.

#### MOSQUITO CONTROL AGENCY PROBLEMS

- Dewey, J. E. 1971. Pesticide and pesticide container disposal problems at the State level. *Chem. Spec. Manuf. Assoc. Proc.* 57:120-122.
- Hutton, G. L. 1971. Pesticide disposal. *Chem. Spec. Manuf. Assoc. Proc.* 57:116-119. [Discussion pp. 119-120.]

Shaw, W. C. 1971. Recent advances in research on the disposal of pesticide wastes and pesticide containers. *Chem. Spec. Manuf. Assoc. Proc.* 57:122-124. [Discussion pp. 124-126.]

#### PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS

- Anthony, D. W., Chapman, H. C. and Hazard, E. I. 1971. Scanning electron microscopy of the sporangia of species of *Coelomomyces* (Blastocladiales: Coelomycetaceae). *J. Invert. Path.* 17(3):395-403.
- Bhattacharya, N. C. 1969. Factors regulating the behaviour of parasites in blood-sucking insect vectors. *Calcutta Schl. Trop. Med. Bul.* 17(4):130-131. [Mosquitoes included.]
- Briggs, J. D. 1970. Principles of integrated control of disease vectors. *Amer. Zool.* 10(4):567-571. [Includes mosquitoes.]
- Dabrowska-Prot, E., Luczak, J. and Tarwid, K. 1968. Prey and predator density and their reactions in the process of mosquito reduction by spiders in field experiments. *Ekol. Polska Ser. A.* 16(40):773-819.
- Dadd, R. H. 1971. Size limitations on the infectivity of mosquito larvae by nematodes during filter-feeding. *J. Invert. Path.* 18(2):246-251.
- Fabacher, D. L. and Chambers, H. 1971. A possible mechanism of insecticide resistance in mosquitofish. *Bul. Environmtl. Contam. and Toxicol.* 6(4):372-374.

- Fukuda, T. 1971. Per os transmission of *Chilo iridescent virus* to mosquitoes. *J. Invert. Path.* 18(1):152-153.
- Hall, D. W. and Anthony, D. W. 1971. Pathology of a Mosquito Iridescent virus (MIV) infecting *Aedes taeniorhynchus*. *J. Invert. Path.* 18(1):61-69.
- Hall, D. W. and Lowe, R. E. 1971. A new distribution record for the Mosquito Iridescent virus (MIV). *Mosquito News* 31(3):448-449.
- Hazard, E. I. and Lofgren, C. S. 1971. Tissue specificity and systematics of a *Nosema* in some species of *Aedes*, *Anopheles*, and *Culex*. *J. Invert. Path.* 18(1):16-24.
- Hudson, J. E. and Clark, D. J. 1971. Predation by spiders on mosquitoes resting in houses in Tanzania. *Mosquito News* 31(3):445.
- Maffi, M. and Genga, R. 1970. Contributo alla conoscenza dell'infestazione da *Coelomomyces* nei Culicidi delle Salomone britanniche, Oceania. *Parasitologia* 12(2/3):171-178. Engl. Sum.
- Metcalf, R. L. 1970. Role of pesticides in the integrated control of disease vectors. *Amer. Zool.* 10(4):583-593. [Mosquitoes included.]
- Notestine, M. K. 1971. Population densities of known invertebrate predators of mosquito larvae in Utah marshlands. *Mosquito News* 31(3):331-334.
- Pillai, J. S. 1968. *Thelohania barra* n. sp., a microsporidian parasite of *Aedes (Halaedes) australis* Erichson, in New Zealand. *Z. Angew. Ent.* 62(4):395-398.
- Young, R. G., St. John, L. and Lisk, D. J. 1971. Degradation of DDT by goldfish. *Bul. Environmtl. Contam. and Toxicol.* 6(4):351-354.

#### EQUIPMENT

- Mount, G. A., Pierce, N. W., Lofgren, C. S. and Salmela, J. 1971. Droplet size and kill of adult mosquitoes with ultralow volume aerial sprays dispersed from a rotary-cylinder atomizer. *Mosquito News* 31(3):326-330.
- World Health Organization. 1971. Application and dispersal of pesticides. Eighteenth report of the WHO Expert Committee on Insecticides. WHO Tech. Rep. Ser. No. 465, 66 pp.

#### ATTRACTANTS AND REPELLENTS

- Garson, L. R. and Garner, D. D. 1971. Unsymmetrical carbonates as potential long-lasting insect repellents. *J. Pharmaceut. Sciences* 60(7):1082-1085.
- Osgood, C. E. 1971. An oviposition pheromone associated with the egg rafts of *Culex tarsalis*. *J. Econ. Ent.* 64(5):1038-1041.
- and Kempster, R. H. 1971. An air-flow olfactometer for distinguishing between oviposition attractants and stimulants of mosquitoes. *J. Econ. Ent.* 64(5):1109-1110.
- Snow, W. F. 1971. The spectral sensitivity of *Aedes aegypti* (L.) at oviposition. *Bul. Ent. Res.* 60(4):683-696.

#### RESISTANCE AND SUSCEPTIBILITY

- Ariaratnam, V. and Georgiou, G. P. 1971. Selection for resistance to carbamate and organophosphorous insecticides in *Anopheles albimanus*. *Nature (London)* 232(5313):642-643.
- Ghosh, R. N. 1971. A report on the resistance of *Culex pipiens fatigans* (Wied.) collected from Calcutta against dieldrin. *Indian J. Med. Res.* 59(5):671-674.
- Kalra, R. L. 1970. Studies on the mechanism of DDT resistance in *Culex pipiens fatigans* III. Effect of synergists on the toxicity of DDT. *Boytu-Kagaku* 35(2):33-38. In Engl.
- Khrustova, T., Todorov, T. and Avramova, S. 1968. Studies on DDT sensitivity of *Anopheles* mosquitoes in some regions of Bulgaria. *Epidemiol., Mikrobiol. i Infekciozni Bolesti (Sofiya)* 5(3):278-284. In Bulg.
- Mauranges, P. 1970. La résistance aux insecticides du *Culex*, vecteur de la filariose. *Semaine Médicale Prof. et Médico-Sociale (Paris)* 46(4):78-80.
- Mount, G. A., Dame, D. A. and Lofgren, C. S. 1971. Susceptibility of a Florida strain of *Aedes taeniorhynchus* (Wiedemann) to insecticides. *Mosquito News* 31(3):438-440.
- Oppenorth, F. J. 1971. Resistance in insects: the role of metabolism and the possible use of synergists. *WHO Bul.* 44(1/3):195-202.
- Smith, C. N. 1970. Resistance to insecticides and new approaches to control of insects. *Indus. and Trop. Health* 7:70-80. [Includes mosquitoes.]
- Tadano, T. 1970. Recombination values between the white eye and factors for resistance to dieldrin, Abate, fenthion and fenitrothion in larvae of *Culex pipiens pallens* Coquillett. *Jap. J. Sanit. Zool.* 21(3):156-160. In Engl.
- and Sato, H. 1970. Parathion-resistance in larvae of *Culex pipiens* Coquillett. *Jap. J. Sanit. Zool.* 21(3):186-188. In Engl.
- World Health Organization. 1971. Information circular on insecticide resistance insect behaviour and vector genetics. WHO VBC/IRG/71.13, 37 pp.
- . 1971. Information circular on insecticide resistance, insect behaviour and vector genetics. WHO VBC/IRG/71.14, 21 pp.
- . 1971. Information circular on insecticide resistance insect behaviour and vector genetics. Supplement B—revised July 1971. List of insecticide-resistant strains under laboratory culture. WHO VBC/IRG/71.15, 21 pp.
- Yasuno, M. and Kerdpibule, V. 1967. Susceptibility of larvae of *Culex pipiens fatigans* to organophosphorus insecticides in Thailand. *J. Expt. Med.* 37(6):559-562.
- and —. 1967. The susceptibility of various species of mosquitoes to DDT and dieldrin in Thailand. *Jap. J. Expt. Med.* 37(6):563-579.
- Yasuno, M., Purivethaya, Y. and Harinasuta, C. 1967. Dieldrin and DDT resistance of *Culex*

*pipiens fatigans* in Thailand. Jap. J. Expt. Med. 37(6):535-546.

#### INSECTICIDES AND CHEMICALS

- Aldridge, W. N. 1971. The nature of the reaction of organophosphorus compounds and carbamates with esterases. WHO Bul. 44(1/3): 25-30.
- Clark, G. 1971. Organophosphate insecticides and behavior, a review. Aerospace Med. 42(7): 735-740. [Includes malathion.]
- Dahm, P. A. 1971. Toxic effects produced in insects by organophosphorus compounds. WHO Bul. 44(1/3):215-219. [Includes mosquitoes.]
- Dauterman, W. C. 1971. Biological and non-biological modifications of organophosphorus compounds. WHO Bul. 44(1/3):133-150.
- Elliott, M. 1971. The relationship between the structure and the activity of pyrethroids. WHO Bul. 44(1/3):315-324.
- Fukuto, T. R. 1971. Relationships between the structure of organophosphorus compounds and their activity as acetylcholinesterase inhibitors. WHO Bul. 44(1/3):31-42.
- Hadaway, A. B. 1971. Some factors affecting the distribution and rate of action of insecticides. WHO Bul. 44(1/3):221-224. [Mosquitoes included.]
- Holan G. 1971. Rational design in insecticides. WHO Bul. 44(1/3):355-362.
- . 1971. Rational design of degradable insecticides. Nature (London) 232(5313):644-647.
- Knaak, J. B. 1971. Biological and non-biological modifications of carbamates. WHO Bul. 44(1/3):121-131.
- Kurihara, N. 1970. BHC—its toxicity and its penetration, translocation and metabolism in insects and mammals. Botyu-Kagaku 35(2): 56-68. In Jap. [Includes *Culex tritaeniatus pallens*.]
- Metcalf, R. L. 1971. Structure-activity relationships for insecticidal carbamates. WHO Bul. 44(1/3):43-78.
- , Kapoor, I. P. and Hirwe, A. S. 1971. Biodegradable analogues of DDT. WHO Bul. 44(1/3):363-374.
- Narashashi, T. 1971. Mode of action of pyrethroids. WHO Bul. 44(1/3):337-345.
- Nishizawa, Y. 1971. Development of new synthetic pyrethroids. WHO Bul. 44(1/3):325-336.
- Yamamoto, I., Elliott, M. and Casida, J. E. 1971. The metabolic fate of pyrethrin I, pyrethrin II, and allethrin. WHO Bul. 44(1/3):347-348.

#### TOXICOLOGY

- Aldridge, W. N. and Johnson, M. K. 1971. Side effects of organophosphorus compounds: delayed neurotoxicity. WHO Bul. 44(1/3):250-263.
- Arnan, A. 1971. Experience in the WHO field programme for evaluating the safety of new insecticides. WHO Bul. 44(1/3):273-276.

Augustinsson, K. B. 1971. Comparative aspects of the purification and properties of cholinesterases. WHO Bul. 44(1/3):81-89.

Beeasley, W. N. 1971. A relationship in mice between dosage with insecticidal sulphonamides and hyperglycaemia. Ann. Trop. Med. and Parasitol. 65(3):417-418.

Bitman, J., Cecil, H. C. and Fries, G. C. 1971. Nonconversion of *o,p'*-DDT to *p,p'*-DDT in rats, sheep, chickens, and quail. Science 174(4004):64-66.

Booth, G. M. and Lee, A. H. 1971. Distribution of cholinesterases in insects. WHO Bul. 44(1/3):91-98.

Bruce-Chwatt, L. J. 1971. Insecticides and the control of vector-borne diseases. WHO Bul. 44(1/3):419-424.

Brust, R. A., Miyazaki, S. and Hodgson, G. C. 1971. Effect of Dursban in the drinking water of chicks. J. Econ. Ent. 64(5):1179-1183.

Collins, T. F. X., Hansen, W. H. and Keeler, H. V. 1971. The effect of carbaryl (sevin) on reproduction of the rat and gerbil. Toxicol. and Appl. Pharmacol. 19(2):202-216.

Dinerman, A. A., Lavrentieva, N. A. and Ilyinskaya, N. A. 1970. The embryotoxic action of certain pesticides. Gig. i Sanit. 35(7):39-42. In Russ., Engl. Sum. [Includes DDT.]

Donninger, C. 1971. Species specificity of phosphate triester anticholinesterases. WHO Bul. 44(1/3):265-268.

DuBois, K. P. 1971. The toxicity of organophosphorus compounds to mammals. WHO Bul. 44(1/3):233-240.

Ekin, F. H. 1971. Accidental poisoning with malathion. Brit. Med. J. 5765:47.

Fukuto, T. R., Metcalf, R. L., Jones, R. L. and Myers, R. O. 1969. Structure, reactivity, and biological activity of O-(diethyl phosphoryl) oximes and O-(methyl-carbamoyl)oximes of substituted acetophenones and  $\alpha$ -substituted benzaldehydes. J. Agr. and Food Chem. 17(5): 923-930. [Includes mosquitoes.]

Hayes, W. J., Jr. 1971. Studies on exposure during the use of anticholinesterase pesticides. WHO Bul. 44(1/3):277-288.

Heinrichs, W. L., Gellert, R. L., Bakke, J. L. and Lawrence, N. L. 1971. DDT administered to neonatal rats induces persistent estrus syndrome. Science 173(3997):642-643.

Hill, E. F., Eliason, D. A. and Kilpatrick, J. W. 1971. Effects of ultra-low volume applications of malathion in Hale County, Texas III. Effect on nontarget animals. J. Med. Ent. 8(2):173-179.

Hollingsworth, R. M. 1971. Comparative metabolism and selectivity of organophosphate and carbamate insecticides. WHO Bul. 44(1/3): 155-170.

Holmstedt, B. 1971. Distribution and determination of cholinesterases in mammals. WHO Bul. 44(1/3):99-107.

Hughes, J. P. 1971. Malathion poisoning. Brit. Med. J. 5767:184.

- Larsen, A. A., Robinson, J. M., Schmitt, N. and Hole, L. W. 1971. Pesticide residues in mother's milk and human fat from intensive use of soil insecticides. HSMHA Health Rpts. 86(5):477-481. [Dieldrin et al.]
- Laws, E. R., Jr. 1971. Evidence of antitumorigenic effects of DDT. Arch. Environ. Health 23(3):181-184.
- Meeter, E., Wolthuis, O. L. and Van Benthem, R. M. J. 1971. The anticholinesterase hypothermia in the rat: its practical application in the study of the central effectiveness of oximes. WHO Bul. 44(1/3):251-257.
- Mick, D. L., Long, K. R., Dretchen, J. S. and Bonderman, D. P. 1971. Aldrin and dieldrin in human blood components. Arch. Environ. Health 23(3):177-180.
- Nakanishi, M., Hamada, Y. and Izaki, K. 1970. Toxicological studies on a new pyrethroid: Kikuthrin (Part II). Studies on insecticide VI. Botyu-Kagaku 35(3):113-116. In Jap., Engl. Sum.
- Nakanishi, M., Mukai, T., Takeuchi, M. and Edanaga, M. 1970. Toxicological studies on a new pyrethroid: Kikuthrin (part I). Studies on insecticide V. Botyu-Kagaku 35(3):103-112. In Jap., Engl. Sum.
- Nakanishi, M., Okada, T., Shuto, S. and Yamaguchi, N. 1970. Pharmacological studies on a new pyrethroid: Kikuthrin. Studies on insecticide VII. Botyu-Kagaku 35(3):117-123. In Jap., Engl. Sum.
- Namba, T. 1971. Cholinesterase inhibition by organophosphorus compounds and its clinical effects. WHO Bul. 44(1/3):289-307.
- Reiner, E. 1971. Spontaneous reactivation of phosphorylated and carbamylated cholinesterases. WHO Bul. 44(1/3):109-112.
- Sobotka, T. J. 1971. Behavioral effects of low doses of DDT. Soc. Expt. Biol. and Med. Proc. 137(3):952-955.
- Vandekar, M., Plěstina, R. and Wilhelm, K. 1971. Toxicity of carbamates for mammals. WHO Bul. 44(1/3):241-249.
- van Halteren, P. 1971. Preliminary investigations on dieldrin accumulation in an insect food chain. J. Econ. Ent. 64(5):1055-1056. [No evidence of dieldrin accumulation in the food chain of mantids.]
- Wilkinson, C. F. 1971. Effects of synergists on the metabolism and toxicity of anticholinesterases. WHO Bul. 44(1/3):171-190.
- Wolfe, H. R. and Armstrong, J. F. 1971. Exposure of formulating plant workers to DDT. Arch. Environ. Health 23(3):169-176.
- See also Länsimies et al. and Szilágyi et al. in *Malaria—Therapeutics and Antimalarials Section.*
- ### BEHAVIOR, BIOLOGY AND ECOLOGY
- Bidlingmayer, W. L. 1971. Mosquito flight paths in relation to the environment. 1. Illumination levels, orientation, and resting areas. Ent. Soc. Amer. Ann. 64(5):1121-1131.
- Bullini, L., Gironi, A. M., Bianchi Bullini, A. P. and Coluzzi, M. 1970. Further observations on phosphoglucomutase polymorphism in *Aedes aegypti*. Parassitologia 12(2/3):113-117.
- Floore, T. G., Grothaus, R. H. and Miner, W. F. 1971. Seasonal mosquito fluctuations in Da Nang, South Vietnam, based on three prevalent species. Mosquito News 31(3):416-421.
- Gubler, D. J. and Bhattacharya, N. C. 1971. Observations on the reproductive history of *Aedes (Stegomyia) albopictus* in the laboratory. Mosquito News 31(3):356-359.
- Iglisch, I. 1971. Stechmückenplagen in Grossstädten. Teil. I: Zur Lebensweise der Stechmücken und zur Prognose eines Massenauftrittens. Bundesgesundheitsblatt 14(5):53-60. [Includes several species of mosquitoes.]
- Jupp, P. G. and McIntosh, B. M. 1967. Ecological studies on Sindbis and West Nile viruses in South Africa. II. Mosquito bionomics. South Afr. J. Med. Sciences 32(1/2):15-33.
- Lachmajer, J. 1971. Biology of *Anopheles claviger* (Meigen, 1804) populations (Diptera, Culicinae) in the Gdańsk environment. Acta Parasitol. Polonica 19(14):163-184. In Engl.
- . 1971. Host selection by *Anopheles lutzianus atroparvus* V. Thiel 1927 (Diptera, subfamilia Culicidae) in Gdańsk environment. Inst. Marine Med. Gdańsk Bul. 22(1/2):41-48. In Engl., Pol. and Rus. Sum.
- McClelland, G. A. H. and Conway, G. R. 1971. Frequency of blood feeding in the mosquito *Aedes aegypti*. Nature (London) 232(5311):485-486.
- Morales Alarcón, A. 1968. Distribución geográfica, horizontal y vertical, de *Haemagogus* (Diptera Culicidae) de Colombia. Acad. Colomb. Cienc. Exact. Fís. Nat. 13(50):267-272.
- Nayar, J. K. and Sauerman, D. M., Jr. 1971. The effect of light regimes on the circadian rhythm of flight activity in the mosquito *Aedes taeniorhynchus*. J. Expt. Biol. 54(3):745-756.
- Nelson, M. J. 1971. Mosquito studies (Diptera, Culicidae). XXVI. Winter biology of *Culex tarsalis* in Imperial Valley, California. Amer. Ent. Inst. Contrib. 7(6):1-56.
- Ocunba, E. O. 1971. Observations on *Culex pipiens fatigans* in Ibadan, western Nigeria. Ann. Trop. Med. and Parasitol. 65(3):399-402.
- Peters, R. F. (Moderator). 1971. A. M. C. A.'s response to the current ecological era. A panel discussion. Mosquito News 31(3):334-346. [Participants, subjects and pages as follows:
- Beidler, E. J. South Atlantic Region pp. 334-336.
  - Kuschke, J. C. North Atlantic Region. pp. 336-338.
  - Fronk, L. E. West Central Region. p. 338.
  - Long, J. D. South Central Region. p. 339.
  - McFarland, G. C. South Pacific Region. pp. 339-341.
  - Murphrey, F. J. Mid-Atlantic Region. pp. 341-342.
  - Newsom, H. D. North Central Region. pp. 342-343.

- Pletsch, D. J. Latin American-Caribbean Region. pp. 343-344.
- Stoner, J. C. North Pacific Region. pp. 344-345.
- West, A. S. Canada Region. pp. 345-346.]
- Petersen, J. J. and Willis, O. R. 1971. Effects of salinity on site selection by ovipositing tree hole mosquitoes in Louisiana. Mosquito News 31(3):352-355.
- Provost, M. W. 1969. The natural history of *Culex nigripalpus*. Fla. State Bd. Health Monogr. 12:46-62.
- Resh, V. H. 1971. Larval habitats of mosquitoes in Jefferson County, Kentucky. Mosquito News 31(3):446-448.
- Reuben, R. 1971. Studies on the mosquitoes of North Arcot District, Madras State, India. Part 1. Seasonal densities. Part 2. Biting cycles and behavior on human and bovine baits at two villages. J. Med. Ent. 8(2):119-126; 127-134.
- Riordan, D. F. 1971. Behavior of *Aedes aegypti* (L.) larvae and pupae in direct-current electric fields. Canad. J. Zool. 49(5):581-586.
- Service, M. W. 1971. Feeding behaviour and host preferences of British mosquitoes. Bul. Ent. Res. 60(4):653-661.
- \_\_\_\_\_. 1971. Flight periodicities and vertical distribution of *Aedes cantans* (Mg.), *Ae. geniculatus* (Ol.), *Anopheles plumbeus* Steph. and *Culex pipiens* L. (Dipt., Culicidae) in southern England. Bul. Ent. Res. 60(4):639-651.
- Smith, S. M. and Brust, R. A. 1971. Photo-periodic control of the maintenance and termination of larval diapause in *Wyeomyia smithii* (Coq.) (Diptera: Culicidae) with notes on oogenesis in the adult female. Canad. J. Zool. 49(8):1065-1073.
- Takahashi, M., Yabe, S. and Shimizu, Y. 1971. Observations on the feeding habits of some mosquitoes in Gunma Prefecture, Japan. Jap. J. Med. Sci. and Biol. 24(3):163-169. In Engl.
- Trpis, M. 1971. Seasonal variation in adult populations of *Aedes aegypti* in Dar es Salaam area, Tanzania. WHO/VBC/71.291, 29 pp.
- Vansulin, S. A. 1971. Some problems of ecology of *Culex pipiens molestus* Forsk. under Lenin-grad conditions. Parazitologiya 5(4):361-363. In Rus., Engl. Sum.
- Vinogradova, E. B. 1969. Diapause in blood-sucking mosquitoes and its regulation. 148 pp., Leningrad. Zool. Inst. Akad. Nauk SSSR (Leningrad). In Rus.
- Yasuno, M. and Harinasuta, C. 1967. The studies of the behaviour of *Culex pipiens fatigans* with special reference to dispersal, mating and feeding. Jap. J. Expt. Med. 37(6):525-534. See also Service in Taxonomy Section and Andersen in Arbovirus Section.
- Bhalla, S. C. 1971. Meiotic behavior of diploid and tetraploid *Aedes aegypti*. Mosquito News 31(3):397-401.
- Coluzzi, M. and Bullini, L. 1971. Enzyme variants as markers in the study of pre-copulatory isolating mechanisms. Nature (London) 231(5303):455-456. [*Aedes mariae* complex.]
- \_\_\_\_\_, \_\_\_\_\_ and Bullini, A. P. B. 1971. Phosphoglucomutase (PGM) allozymes in two forms of the *mariae* complex of the genus *Aedes*. Biochem. Genet. 5(3):253-255.
- Coluzzi, M., Gironi, A. M. and Muir, D. A. 1970. Ulteriori esperimenti d'incrocio tra le forme del complesso *mariae* del genere *Aedes*. Parassitologia 12(2/3):119-123. Engl. Sum.
- Dennhöfer, U. 1971. Genetics and chemistry of eye colour mutations of the mosquito *Culex pipiens* L. Z. f. Naturforschung 26b(6):599-603. In Ger., Engl. Sum.
- Erich, J. 1971. Meiosis in the male of *Culex pipiens* and *Aedes albopictus* and fertilization in the *Culex pipiens*-complex. Canad. J. Genet. and Cytol. 13(2):237-250.
- Garnett, P. and French, W. L. 1971. A genetic study of an esterase in *Culex pipiens quinquefasciatus*. Mosquito News 31(3):379-386.
- Ishii, T. 1970. On the *Culex pipiens* group in Japan Part II V. Siphonal hair types from the type 3-3 population of *Culex pipiens molestus* Forskal (Diptera, Culicidae). Jap. J. Sanit. Zool. 21(3):161-165. In Jap., Engl. Sum.
- Jost, E. 1970. Genetische Untersuchungen zur Inkompatabilität im *Culex pipiens*-Komplex. Theoret. and Appl. Genet. 40(6):251-256. Engl. Sum.
- Kreutzner, R. D. and Kitzmiller, J. B. 1971. Chromosomal similarity between *Anopheles perplexans* and *Anopheles punctipennis*. Mosquito News 31(3):409-415.
- \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1970. Hybridization and speciation in *Anopheles crucians*. Amer. Zool. 10(4):554.
- Laven, H. and Aslamkhan, M. 1970. Control of *Culex pipiens pipiens* and *C. p. fatigans* with integrated genetical systems. Pakistan J. Sci. 22(5/6):303-312.
- Laven, H. and Coauthors. 1971. Inherited semi-sterility for control of harmful insects. II. Degree of sterility and types of translocations in the mosquito *Culex pipiens* L. Experientia 27(8):968-969.
- Sakai, R. K., Baker, R. H. and Mian, A. 1971. Linkage, group-chromosome correlation in a mosquito. Translocations in *Culex tritaeniorhynchus*. J. Heredity 62(2):90-100.
- Walliker, D., Carter, R. and Morgan, S. 1971. Genetic recombination in malaria parasites. Nature (London) 232(5312):561-562.
- Yen, J. H. and Barr, A. R. 1971. New hypothesis of the cause of cytoplasmic incompatibility in *Culex pipiens* L. Nature (London) 232(5313):657-658.
- See also Ariaratnam et al. and Tadano in Resistance Section.

## GENETICS

Barr, A. R., Myers, C. M. 1971. Female-lethal, a heritable factor in *Culex pipiens* L. Mosquito News 31(3):428-434.

tance and Susceptibility Section; and White in Taxonomy Section.

### ANATOMY, MORPHOLOGY AND PHYSIOLOGY

- Alekseev, A. N. and Bodnyuk, N. G. 1970. On the distribution of food in the alimentary canal of mosquitoes. Moskov. Obshch. Ispytatelei Prirody (Otd. Biol.) Byul. 75(4):42-53. In Rus., Engl. Sum.
- Anderson, W. A., and Spielman, A. 1971. Permeability of the ovarian follicle of *Aedes aegypti* mosquitoes. J. Cell Biol. 50(1):201-221.
- Asakura, K. 1970. Studies on the structural basis for ion- and water-transport by the osmoregulatory organs of mosquitoes. (I). Fine structure of the rectal epithelium of *Aedes albopictus* larva. Kanazawa Univ. Sci. Rpt. 15(1):37-56. In Engl.
- Frelinger, J. A. and Roth, T. F. 1971. Synthesis and conservation of ribosomal RNA in adult mosquito ovaries. J. Insect. Physiol. 17(8): 1401-1410.
- Hagedorn, H. H. 1970. Yolk protein synthesis by fat body of *Aedes aegypti*. Amer. Zool. 10(4):526-527.
- Hecker, H., Freyvogel, T. A., Briegel, H. and Steiger, R. 1971. Ultrastructural differentiation of the midgut epithelium in female *Aedes aegypti* (L.) (Insecta, Diptera) imagines. Acta Tropica 28(2):80-104.
- Knight, K. L. 1971. Comparative anatomy of the mandible of the fourth instar mosquito larva (Diptera: Culicidae). J. Med. Ent. 8(2):189-205.
- Kuno, G., Hink, W. F. and Briggs, J. D. 1971. Growth-promoting serum proteins for *Aedes aegypti* cells cultured *in vitro*. J. Insect Physiol. 17(10):1865-1879.
- Larsen, J. R. and Owen, W. B. 1971. Structure and function of the ligula of the mosquito *Culiseta inornata* (Williston). Amer. Microscop. Soc. Trans. 90(3):294-308.
- Manjra, A. A. 1971. Regulation of threshold to sucrose in a mosquito, *Culiseta inornata* (Williston). Mosquito News 31(3):387-390.
- McMullen, A. I. and Hill, M. N. 1971. Anoxia in mosquito pupae under insoluble monolayers. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4): 435.
- Meola, S. M., Lea, A. and Meola, R. 1970. Corpus cardiacum: induced fluctuation in paraaldehyde-fuchsin material in *Aedes sollicitans*. Amer. Microscop. Soc. Trans. 89(3):418-423.
- O'Meara, G. F. and Van Handel, E. 1971. Tri-glyceride metabolism in thermally-feminized males of *Aedes aegypti*. J. Insect Physiol. 17(8):1411-1413.
- Sinitsina, E. E. 1970. The effect of lactose and treonin solutions on the taste receptors of the mosquito *Aedes aegypti* L. (Diptera). Vestnik Moskovskogo Univer. Ser. 6. Biol. No. 5:20-22. In Rus.
- . 1971. Bioelectric activity of contact chemoreceptor sensillae of *Aedes aegypti* L. (Diptera, Culicidae) and food reactions to bio-component solutions. Ent. Obozr. 50(2):267-274. In Rus.
- Spielman, A., Gwadz, R. W. and Anderson, W. A. 1971. Ecdysone-initiated development in mosquitoes. J. Insect Physiol. 17(10):1807-1814.
- Thayer, D. W. and Terzian, L. A. 1971. Amino acid partition in excreta of ageing female *Aedes aegypti* mosquitoes. J. Insect Physiol. 17(9): 1731-1734.
- See also Smith in Books Section.

### TECHNIQUES

- Anderson, R. I. and Buck, A. 1971. Geographical variations in the capacities of serological tests used in screening for parasitic infections. J. Parasitol. 57(4) sect. 2, pt. 1:56.
- Arnold, J. D., Berger, A. E. and Allison, O. 1971. Scanning electron photomicrographs of mouse erythrocytes infected with *Plasmodium berghei*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4): 422.
- Baerg, D. C. 1971. Colonization of *Anopheles pseudopunctipennis* in Panama. J. Med. Ent. 8(2):180-182.
- Greenberg, B. 1970. Sterilizing procedures and agents, antibiotics and inhibitors in mass rearing of insects. Ent. Soc. Amer. Bul. 16(1):31-36. [Mosquitoes included.]
- Hagstrum, D. W. 1971. A model of the relationship between densities of larvae and adults in an isolated population of *Culex tarsalis* (Diptera: Culicidae). Ent. Soc. Amer. Ann. 64(5):1074-1077.
- and Hagstrum, W. R. 1970. A simple device for producing fluctuating temperatures, with an evaluation of the ecological significance of fluctuating temperatures. Ent. Soc. Amer. Ann. 64(5):1385-1389. [Includes mosquitoes.]
- Klassen, W. and Gentz, G. 1971. Temperature-constant and temperature gradient-free insectary: design and operation. J. Econ. Ent. 64(5): 1334-1336.
- Luck, R. F. 1971. An appraisal of two methods of analyzing insect life tables. Canad. Ent. 103(9):1261-1271.
- McArthur, J. 1971. The McArthur microscope—Open University model. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):438.
- McDonald, J. L. 1971. Accurate pouring of concentrated liquid insecticide without spillage or waste. Mosquito News 31(3):446.
- Morris, C. D. and DeFoliart, G. R. 1971. Parous rates in Wisconsin mosquito populations. J. Med. Ent. 8(2):209-212.
- Omer, S. M. and Farmery, B. W. 1971. Scanning electronmicrograph of an antenna from a female *Culex pipiens fatigans* XI900. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):435.
- Pant, C. P. and Jatansen, S. 1971. An *Aedes*

- survey in Ubon Rajthani, Thailand. WHO/VBC/71.292, 7 pp.
- Petana, W. B. 1971. Device for marking microscope slides for use in indirect immunofluorescence work. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):437.
- Przyjalkowski, Z. 1971. The use of germ-free laboratory animals in experimental medicine. Przeglad Epidemiol. 25(2):269-282. In Pol., Engl. Sum.
- Reuben, R. and Pannicker, K. N. 1971. *Aedes* survey in five districts of Rajasthan State, India. WHO/VBC/71.290, 10 pp.
- Schoenleber, L. G., Butt, B. A. and White, L. D. 1970. Equipment and methods for sorting insects by sex. U. S. Dept. Agr. ARS 42-166, 21 pp.
- Sharma, V. P., Patterson, R. S. and Ford, H. R. 1971. A device for the rapid separation of male and female mosquito pupae. WHO/VBC/71.300, 8 pp. Corrigendum. WHO/VBC/71.300 Corr. 1, 1 p.
- Shogaki, Y. and Makiya, K. 1970. An improved device for quantitative sampling of mosquito larvae. Jap. J. Sanit. Zool. 21(3):172-178. In Jap., Engl. Sum.
- Songer, J. R., Sullivan, J. F. and Monroe, J. W. 1971. Safe, convenient pipetting device. Appl. Microbiol. 21(6):1097-1098.
- Standlea, P. P. and Enns, W. R. 1971. A flexible multiple-cage ventilation system for use with sleeved isolation cages. J. Econ. Ent. 64(5):1324.
- Timbers, G. E., Hocking, R. P. and Batt, S. S. 1971. A microenvironment cabinet for toxicological studies. Canad. Ent. 103(9):1347-1350.
- Ungureanu, E. M. 1971. Practical methods for dissecting dry insects and insects preserved in fixative solutions or by refrigeration. WHO/MAL/71.748, WHO/VBC/71.294, 18 pp. [Includes mosquitoes.]
- Wada, Y., Mogi, M. and Nishigaki, J. 1971. Studies on the population estimation for insects of medical importance. IV. A method for the estimation of the relative density of *Culex triatænorhynchus summorosus* larvae in the whole paddy-fields of an area. Trop. Med. (Nagasaki) 13(2):86-93. In Engl.
- Wurmlj, M. 1970. A new method of mounting for preparations of microarthropods and arthropods. Schweiz. Ent. Gesell. 43(4/6):147-148. In Ger.
- Techniques—Tissue Culture*
- Bhat, U. K. M. and Singh, K. R. P. 1970. Establishment of a diploid cell line from larval tissues of *Aedes vittatus* (Bigot, 1861). Current Sci. 39(17):388-390.
- Singh, K. R. P. and Bhat, U. K. M. 1971. Establishment of two mosquito cell lines from larval tissues of *Aedes w-albus*. Experientia 27(2):142-143.
- Sohi, S. S. and Smith, C. 1970. Effect of fetal bovine serum on the growth and survival of insect cell cultures. Canad. J. Zool. 48(3):427-432. [Includes *Aedes aegypti*.]
- Yunker, C. E., Ormsbee, R. A., Cory, J. and Peacock, M. G. 1970. Infection of insect cells with *Coxiella burnetii*. Acta Virologica 14(5):383-392. [Cell lines in *Aedes albopictus*.]
- See also Kuno et al. in Anatomy, Morphology and Physiology Section.
- TAXONOMY
- Clastrier, J. 1970. *Culex (Melanoconion) dolichophyllus* n. sp. et *Culex (Microculex) stonei* Lane et Whitman, 1943 (Diptera, Culicidae) en Guyane française. Ann. de Parasitol. Humaine et Compar. 45(6):857-861. Engl. Sum. [n. sp.]
- . 1971. Sur deux *Melanoconion* et un nouvel *Aedinus* de la Guyane Française [Dipt. Culicidae]. Soc. Ent. France Ann. 7(3):629-654. Engl. Sum. [*Culex menui* n. sp.]
- Duret, J. P. 1970. *Uranotaenia riverai* una nueva especie de Colombia (Diptera, Culicidae). Soc. Ent. Argentina Rev. 32(1/4):43-46. [n. sp.]
- . 1971. Cinco especies nuevas de culicidos neotropicales (Diptera-Culicidae). Neotropica 17(52):15-28. Engl. Sum. [*Sabates gorgasi*, *Wyeomyia gutierrezi*, *Psorophora pseudoalbipes*, *P. pilosus* and *P. ferrarioi* n. spp.]
- Mattingly, P. F. 1971. Contributions to the mosquito fauna of Southeast Asia. XII. Illustrated keys to the genera of mosquitoes (Diptera, Culicidae). Amer. Ent. Inst. Contrib. 7(4):1-84.
- Peterson, B. V. 1971. Lectotype designation for *Aedes simici* (Diptera: Culicidae). Canad. Ent. 103(8):1199-1200.
- Reinert, J. F. 1970. Description of the pupa of *Toxorhynchites (Lynchiella) rutilus rutilus* (Diptera: Culicidae). Fla. Ent. 53(4):209-213.
- . 1971. Descriptions of the pupae of *Aedes (Ochlerotatus) atlanticus* and *Aedes (O.) tormentor* (Diptera:Culicidae). Fla. Ent. 54(1):171-178.
- Service, M. W. 1970. Studies on the biology and taxonomy of *Aedes (Stegomyia) vittatus* (Bigot) (Diptera: Culicidae) in northern Nigeria. Roy. Ent. Soc. London Trans. 122(4):101-143.
- Sokal, R. R. and Rohlf, F. J. 1970. The intelligent ignoramus, an experiment in numerical taxonomy. Taxon 19(3):305-319.
- Taylor, B. and Maffi, M. 1971. Contribution to the knowledge of *Aedes (Stegomyia) hoguei* Belkin 1962 (Diptera: Culicidae). Pacific Ins. 13(1):119-121.
- van Someren, E. C. C. 1971. The description of a new *Aedes* mosquito of the subgenus *Skusea* from the Seychelles. J. Ent. Ser. B Tax. 40(1):21-25. [*A. lambrechti* n. sp.]
- White, G. B. 1971. The use of cytogenetical methods for identification of *A. gambiae* complex mosquitoes in the study of African malaria vectors. J. Parasitol. 57(4) sect. 2, pt. 1:55.
- Wood, R. J. 1971. *Culex (Culex) molestus* For-

skal and *Culex (Culex) pipiens* Linn. (Diptera, Culicidae) in north-east Cheshire. Entomologist 104(1292):31-32.

### DISTRIBUTION

Basio, R. G. 1971. The mosquito fauna of the Philippines (Diptera Culicidae). Nat. Mus. of the Philippines Monogr. No. 4, 198 pp. [Tech. Rpt. 71-1 HQ 1st Med. Serv.]

Forattini, O. P., Rabello, E. X. and Cotrim, M. D. 1970. Catálogo das coleções entomológicas coleções da Faculdade de Saúde Pública da Universidade de São Paulo. (1<sup>a</sup> Série.) Culicidae. Rev. Saúde Pública 4 (No. Especial) 100 pp.

García Avila, I. and Gutsevich, A. V. 1969. Los mosquitos de Cuba como hematófagos del hombre. Torreia (Havana) (n.s.) No. 15, 7 pp. Engl. Sum.

Gladney, W. J. and Turner, E. C., Jr. 1969. Insects of Virginia No. 2. The mosquitoes of Virginia (Diptera: Culicidae). Virginia Polytech. Inst. Res. Div. Bul. No. 49:1-34.

Gutsevich, A. V. and García Avila, I. 1969. Nuevas especies de mosquitos (Culicidae) para Cuba. Torreia (Havana) (n.s.) No. 13, 8 pp. Engl. Sum. [Aedes fulvus, A. walkeri, Uranotaenia cooki and Culex sphinx reported as new for Cuba.]

Hart, J. W. 1969. A checklist of the mosquitoes of Indiana with a record of the occurrence of *Aedes infirmatus* D. and K. Indiana Acad. Sci. Proc. 78:257-259.

Kuznetsov, R. L. 1971. Recognition of *Anopheles coustanti* Laveran, 1900 and *Anopheles squamosus* Theobald, 1901 in the Yemen Arab Republic. Med. Parazit. i Parazit. Bolezni 40(4):441-443. In Rus., Engl. Sum.

Means, R. G. and Thompson, F. C. 1971. A first record of the occurrence of *Culiseta (Culicella) silvestris minnesotae* Barr (Diptera: Culicidae) in New York. Mosquito News 31(3):443-445.

Ramalingam, S. 1970. The occurrence of *Aedes (Stegomyia) aegypti* in Sabah. Med. J. Malaya 25(1):73-74.

Rodhain, F. 1971. Contribution à l'étude des culicides de la basse Vallée de l'Omo (Ethiopie) (1<sup>re</sup> partie). Soc. de Path. Exot. Bul. 64(1): 117-127. Engl. Sum.

Skierska, B. 1970. *Aedes (Aedes) rossicus* D. G. M. und *Aedes (Ochlerotatus) beklemishevii* Den.—zwei neue für Polen Stechmückenarten (Diptera, Culicinae). Polskie Pismo Ent. 40(3):611-617. In Pol., Ger. Sum.

Williams, J. E., Watts, D. M. and Reed, T. J. 1971. Distribution of culicine mosquitoes within the Pocomoke Cypress Swamp, Maryland. Mosquito News 31(3):371-378.

See also Wood and Taylor et al. in Taxonomy Section.

### ARBOVIRUSES

Abdel Wahab, K. S. E. and Coauthors. 1970. Antibodies to arboviruses in rodent sera. Egypt.

Pub. Health Assoc. J. 45(4):370-375. [Those of mosquito origin found to be mostly absent in rodents.]

Anderson, D. 1967. Ecological studies on Sindbis and West Nile viruses in South Africa. III. Host preferences of mosquitoes as determined by the precipitin test. South Afr. J. Med. Sciences 32(1/2):34-39.

Aspöck, H., Graefe, G. and Kunz, C. 1971. Studies on the periodicity of the occurrence of Tahyna and Calovo viruses. Zentbl. Bakteriol. Parasit. Infektionskr. u. Hyg. I. Abt. Orig. Reihe A 217(4):431-440. In Ger., Engl. Sum.

Aspöck, H. and Hofmann, H. 1971. The course of experimental infection of foxes (*Vulpes vulpes* L.) and badgers (*Meles meles* L.) with Tahyna and Calovo viruses. Zentbl. Bakteriol. Parasit. Infektionskr. u. Hyg. I. Abt. Orig. Reihe A 217(2):148-151. In Ger., Engl. Sum.

Aspöck, H. and Kunz, C. 1971. Antikörper gegen Tahyna-virus und Calovo-virus in wild lebenden und domestizierten Säugetieren im östlichen Neusiedlersee-Gebiet (Ost-Österreich). Zentbl. Bakteriol. Parasit. Infektionskr. u. Hyg. I. Abt. Orig. 216(4):435-440. Engl. Sum.

Aspöck, H. and Radda, A. 1971. Experimentelle Infektion des Feldhasen (*Lepus europaeus* L.) mit Calovo-virus. Zentbl. Bakteriol. Parasit. Infektionskr. u. Hyg. I. Abt. Orig. Reihe A 217(3):417-418.

Bradish, C. J., Allner, K. and Maber, H. B. 1971. The virulence of original and derived strains of Semliki Forest virus for mice, guinea pigs and rabbits. J. General Virol. 12(2):141-160.

Buckley, S. M. 1971. Infection of an *Aedes albopictus* cell line with an arbovirus isolated from anopheline mosquitoes. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):535-536.

Chatterjee, S. N. and Coauthors. 1967. Survey of antibodies against chikungunya virus in the sera collected in Calcutta during 1964 and 1965. Indian J. Med. Res. 55(7):665-670.

Chunikhin, S. P., Chumakov, M. P., Karaseva, P. S. and Semenov, B. F. 1968. Results of serological examination with 10 arboviruses of people, cattle and wild animals in southern areas of the Uzbek SSR. Voprosy Virusologii 13(3):332-336. In Rus., Engl. Sum. [Includes West Nile, Sindbis et al.]

Cogniauz-Le Clerc, J. 1971. Interaction between Sindbis virus RNA and ribosomes from chick fibroblasts. Biochem. and Biophys. Res. Commun. 44(1):22-28.

Darwish, M. A. and Ibrahim, A. H. 1971. Survey for antibodies to arboviruses in Egyptian sera (I) West Nile virus antihemagglutinins in human and animal sera. Egypt. Pub. Health Assoc. J. 46(2):61-70.

Digoutte, J. P. and Coauthors. 1970. Le virus M'Poko (Ba 365) nouveau prototype d'arbovirus isolé en République centrafricaine. Inst. Pasteur (Paris) Ann. 119(4):512-519. Engl. Sum. [Isolated from a pool of *Culex perfuscus*, *C. pruina* and *C. weschei*.]

- Doherty, R. L. and Coauthors. 1971. Studies of the epidemiology of arthropod-borne virus infections at Mitchell River Mission, Cape York Peninsula, north Queensland. IV. Arbovirus infections of mosquitoes and mammals, 1967-1969. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):504-513.
- Ernek, E. and Coauthors. 1971. Antibodies to arboviruses in birds in Czechoslovakia. Acta Virologica 15(4):335.
- Gaidamovich, S. Ya. and Coauthors. 1971. Fractionation of Sindbis virus by equilibrium centrifugation. Acta Virologica 15(4):257-262.
- Hayes, C. R., Jr., Schepff, P. P. and Johnson, E. B. 1971. An historical review of the last continental U. S. epidemic of dengue. Mosquito News 31(3):422-424.
- Henderson, E. E. and Coleman, P. H. 1971. The growing importance of California arboviruses in the etiology of human disease. Prog. in Med. Virol. 13:404-461.
- Hotta, S. and Coauthors. 1970. Clinical and laboratory examinations on a case of "hemorrhagic fever" found in Surabaya, Indonesia, in 1968. Kobe J. Med. Sciences 16(4):203-210. [Possibly mosquito-borne.]
- . 1970. Virologic-epidemiological studies on Indonesia. II. Measurement of anti-arbovirus antibodies in sera from residents of Lombok, South Sumatra and West Java, in comparison with results concerning sera from residents of Japanese main islands. Kobe J. Med. Sciences 16(4):215-234.
- . 1970. Virologic-epidemiological studies on Indonesia. III. HI antibodies against selected arboviruses (groups A and B) in human and animal sera collected in Surabaya, East Java, in 1968. Kobe J. Med. Sciences 16(4):235-250.
- Huang, W. C. and Cates, M. D. 1969. Group A arbovirus isolated from *Culex tritaeniorhynchus summorosus* Dyar in Taipei. Chin. J. Microbiol. 2:66.
- Iswara, Atasiati, Soeharto and Biroum. 1970. Fever patients found in Surabaya, Indonesia, in 1968-1969. Kobe J. Med. Sciences 16(4):211-214. [No initials given for authors.]
- Kemp, G. E., Humburg, J. M. and Alhaji, I. 1971. Isolation and identification of African horse-sickness virus in Nigeria. Vet. Record 89(4):127-128.
- Kunz, C. and Coauthors. 1970. Studies on tick-borne encephalitis and other arthropod-borne virus diseases. Vienna Univ. Hyg. Inst. Final Tech. Rpt. Contract No. DAJA37-69-C-1451, 73 pp. [Includes Tahyna and Calovo viruses.]
- Macasaet, F. F. and Coauthors. 1970. Epidemiology of arbovirus infections in Negros Oriental. III. Arbovirus infections in man and other vertebrates with emphasis on hemorrhagic fever. Philippine Med. Assoc. J. 46(7) pt. 1:330-346.
- Málková, D. 1971. Thermosensitivity of Tahyna virus. Acta Virologica 15(4):309-315.
- . and Marhoul, Z. 1971. Plaquing of different strains of Tahyna virus in GMK cells. Acta Virologica 15(3):227-232.
- Mazaud, R. and Coauthors. 1971. Acute sensorial neurologic troubles in the course of dengue and chikungunya fever. Soc. de Path. Exot. Bul. 64(1):22-30. In Fr., Engl. Sum.
- McIntosh, B. M. and Coauthors. 1967. Ecological studies on Sindbis and West Nile viruses in South Africa. I. Viral activity as revealed by infection of mosquitoes and sentinel fowls. South Afr. J. Med. Sciences 32(1/2):1-14.
- McIntosh, B. M., Dickinson, D. B. and McGillivray, G. M. 1969. Ecological studies on Sindbis and West Nile viruses in South Africa. V. The response of birds to inoculation of virus. South Afr. J. Med. Sciences 34(3):77-82.
- McIntosh, B. M., Madsen, W. and Dickinson, D. B. 1969. Ecological studies on Sindbis and West Nile viruses in South Africa. VI. The antibody response of wild birds. South Afr. J. Med. Sciences 34(3):83-91.
- McIntosh, B. M., McGillivray, G. M., Dickinson, D. B. and Taljaard, J. J. 1968. Ecological studies on Sindbis and West Nile viruses in South Africa. IV. Infection in a wild avian population. South Afr. J. Med. Sciences 33(4):105-112.
- Melnick, J. L. 1971. Classification and nomenclature of animal viruses, 1971. Prog. in Med. Virol. 13:462-484.
- Myers, R. M. and Coauthors. 1971. The 1968 outbreak of dengue in Vellore, southern India. Amer. J. Pub. Health 61(7):1379-1391.
- Oram, J. D., Ellwood, D. C., Appleyard, G. and Stanley, J. L. 1971. Agglutination of an arbovirus by concanavalin A. Nature New Biol. 233(36):50-51.
- Pilo-Moron, E., Vincent, J., Ait-Mesbah, O. and Forthomme, G. 1969. Origine de la peste équine en Afrique du Nord: résultats d'une enquête sur les ânes du Sahara algérien. Inst. Pasteur Algérie Arch. 47:105-118. Engl. Sum. [Mosquitoes included.]
- Reeves, W. C. 1971. The impact of mosquito-borne diseases on organized mosquito control districts. Mosquito News 31(3):319-325.
- Seamer, J. H., Boulter, E. A. and Zlotnik, I. 1971. Delayed onset of encephalitis in mice passively immunised against Semliki Forest virus. Brit. J. Expt. Path. 52(4):408-414.
- Siebert, R. 1970. The Marburg virus (virus monkey agent). Modern Trends in Med. Virol. (London) Vol. 2:204-240. [Possibly carried by *Aedes aegypti*.]
- Smith, T. J., Winter, P. E., Nisalak, A. and Udomsakdi, S. 1971. Dengue control on an island in the Gulf of Thailand. II. Virological studies. Amer. J. Trop. Med. and Hyg. 20(5):715-719.
- Solivanik, R. G., Podoplekin, V. D. and Fedorov, Yu., V. 1971. Experimental mutability of the Venezuelan equine encephalomyelitis virus. I. The mutant characters, induced by alkylating compounds. Genetika 7(5):130-137. In Rus., Engl. Sum.
- Srihongse, S. and Johnson, C. M. 1971. The first isolation of Bussuquara virus from man. Roy.

- Soc. Trop. Med. and Hyg. Trans. 65(4):541-542.
- Takeda, H., Sakumoto, H., Oya, A. and Yamada, M. A. 1971. Cytoplasmic localization of ribonucleic acid synthesis induced in the cells infected with some group A arboviruses. Jap. J. Med. Sci. and Biol. 24(2):101-113.
- Winter, P. E. and Coauthors. 1971. Dengue control on an island in the Gulf of Thailand. III. Effect on transmission of dengue virus to man. Amer. J. Trop. Med. and Hyg. 20(5):720-725.
- Wong, Y. W. and Coauthors. 1971. Arboviruses isolated from mosquitoes collected in southeastern Iowa in 1966. Amer. J. Trop. Med. and Hyg. 20(5):726-729.
- Yoshinaka, Y. and Hotta, S. 1971. Infectivity of virus-specific RNA's of a group A arbovirus, chikungunya. Virology 45(2):524-526.
- and —. 1971. Purification of arboviruses grown in tissue culture. Soc. Expt. Biol. and Med. Proc. 137(3):1047-1053. [Mosquito-borne included.]
- See also Gould and Coauthors in Adulticides and Larvicides Section and Jupp et al. in Behavior, Biology and Ecology Section.

### ENCEPHALITIS

- Archer, R. K. 1971. Venezuelan equine encephalomyelitis. Vet. Record 89 (5):148.
- Bigler, W. J. 1971. Serologic evidence of Venezuelan equine encephalitis virus infections in raccoons of south central Florida. J. Wildlife Dis. 7(3):166-170.
- Bond, J. O. 1969. St. Louis encephalitis virus infection in man. Fla. State Bd. Health Monogr. 12:1-29.
- Burton, A. N. and McLintock, J. 1970. Further evidence of western encephalitis infection in Saskatchewan mammals and birds and in reindeer in northern Canada. Canad. Vet. J. 11(11):232-235.
- Calisher, C. H., Maness, K. S. C., Lord, R. D. and Coleman, P. H. 1971. Identification of two South American strains of eastern equine encephalomyelitis virus from migrant birds captured on the Mississippi delta. Amer. J. Epidemiol. 94(2):172-178.
- Cole, F. E., Jr. and McKinney, R. W. 1971. Cross-protection in hamsters immunized with group A arbovirus vaccines. Infect. and Immunity 4(1):37-43.
- Dickerman, R. W., Scherer, W. F. and Diaz-Najera, A. 1971. Ecologic studies of Venezuelan encephalitis virus in southeastern Mexico. I. Introduction and study sites. Amer. J. Trop. Med. and Hyg. 20(5):730-739.
- Dickerman, R. W., Zarate, M. L., Scherer, W. F. and de Mucha-Macias, J. 1971. Venezuelan encephalitis virus along the central and northern Gulf Coast of Mexico as of July-September 1969. Bol. Ofic. Sanit. Pan-amer. 71(2):143-151. In Engl.
- Ehrlich, R. and Miller, S. 1971. Effect of relative humidity and temperature on airborne Venezuelan equine encephalitis virus. Appl. Microbiol. 22(2):194-199.
- Emelyanov, B. A. and Uryvaev, L. V. 1971. Investigation of the mechanism of interferon induction and of its effect in arbovirus infection in tissue culture. Voprosy Virusologii 16(3):333-339. In Rus., Engl. Sum.
- Gaidamovich, S. Ya., Tsilinsky, Ya. Ya., Lvova, A. I. and Khutoretskaya, N. V. 1971. *Aedes aegypti* mosquitoes as an experimental model for studies on the ecology and genetics of Venezuelan equine encephalomyelitis virus. Acta Virologica 15(4):301-308.
- Garcia-Tamayo, J. 1971. Acid phosphatase activity in mouse brain infected with Venezuelan equine encephalomyelitis virus. J. Virology 8(2):232-241.
- González, R. 1971. Observaciones clínicas de encefalomielitis equina en un brote ocurrido en Guatemala en 1969. Rev. Fac. Med. Vet. y Zootecnia (Guatemala) 3(1): 77-79. Engl. Sum.
- Gushchin, B. V., Tsilinsky, Ya. Ya., Lvov, D. M. and Klimenko, S. M. 1971. Conditions of formation and possible nature of "giant" virions of Venezuelan encephalomyelitis virus. Voprosy Virusologii 16(3):323-327. In Rus., Engl. Sum.
- Hoff, G. L., Anslow, R. O., Spalatin, J. and Hanson, R. P. 1971. Isolation of Montana snowshoe hare serotype of California encephalitis virus group from a snowshoe hare and *Aedes* mosquitoes. J. Wildlife Dis. 7(1):28-34.
- Hrušková, J. and Rychterová, V. 1971. Infection of chicks with Venezuelan equine encephalomyelitis virus. Acta Virologica 15(4):324-325.
- Jennings, W. L. 1969. Implication and significance of observations on the possible vertebrate reservoir of SLE in Florida. Fla. State Bd. Health Monogr. 12:95-100.
- . 1969. The vertebrate reservoir of SLE virus in the Tampa Bay area of Florida. Fla. State Bd. Health Monogr. 12:73-89.
- and Coauthors. 1969. Serologic studies of possible avian or mammalian reservoirs of St. Louis encephalitis virus in Florida. Fla. State Bd. Health Monogr. 12:118-125.
- Johnson, J. W. 1971. Susceptibility of tissue cultures of minced *Aedes aegypti* pupae and adults to infection with Venezuelan equine encephalomyelitis virus. Amer. J. Trop. Med. and Hyg. 20(5):761-764.
- Ketel, W. B. and Ognibene, A. J. 1971. Japanese B encephalitis in Vietnam. Amer. J. Med. Sciences 261(5):271-279.
- Larsen, J. R. and Ashley, R. F. 1971. Demonstration of Venezuelan equine encephalomyelitis virus in tissues of *Aedes aegypti*. Amer. J. Trop. Med. and Hyg. 20(5):754-760.
- Luby, J. P., Sanders, V. and Sulkin, S. E. 1971. Interferon assays and quantitative virus deter-

- minations in a fatal infection in man with western equine encephalomyelitis virus. Amer. J. Trop. Med. and Hyg. 20(5):765-769.
- McConnell, S. 1971. Venezuelan equine encephalitis: current virus activity and disease control. Southwest. Vet. 24(4): 259-262.
- McDonald, J. L. 1969. Japanese B encephalitis in the Western Pacific. U. S. Navy Dis. Vector Control Center, Jacksonville. Tech. Monogr. 2(1):1-12.
- Newhouse, V. F., Burgdorfer, W. and Corwin, D. 1971. Field and laboratory studies on the hosts and vectors of the snowshoe hare strain of California virus. Mosquito News 31(3): 401-408.
- Novokhatsky, A. S., Grigoryan, S. S. and Ershov, F. I. 1971. The effect of Deae-dextran, protamine sulfate and sulfated polysaccharides of agar on multiplication of Venezuelan equine encephalomyelitis virus in cell cultures. Voprosy Virusologii 16(3):317-322. In Rus., Engl. Sum.
- \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1971. Thermostabilization of viruses. Communication V. Thermoactivation and thermostabilizing agents as a factor determining the level of VEE virus production in cell culture. Voprosy Virusologii 16(3):327-333. In Rus., Engl. Sum.
- Nichols, J. B. and Bigler, W. J. 1969. Use of sentinel animals in St. Louis encephalitis virus surveillance in Florida outside the Tampa Bay area. Fla. State Ed. Health Monogr. 12:90-94.
- Rogers, A. J. 1969. Research on the control of SLE vectors in Florida and the Southeastern United States. Fla. State Bd. Health Monogr. 12:63-72.
- Scherer, W. F. and Coauthors. 1971. Ecologic studies of Venezuelan encephalitis virus in southeastern México. II. Prevalence, and geographic and temporal distribution of virus measured by sentinel hamsters and mice. Amer. J. Trop. Med. and Hyg. 20(5):740-753.
- Shinner, J. J. 1969. Clinical laboratory studies and moribund anatomy. Fla. State Bd. Health Monogr. 12:30-33. [In connection with SLE.]
- Sudia, W. D. and Newhouse, V. F. 1971. Venezuelan equine encephalitis in Texas, 1971. Informational report. Mosquito News 31(3): 350-351.
- Taylor, D. J. and Coauthors. 1969. St. Louis encephalitis virus and *Culex nigripalpus* in Florida. Review of field observations and laboratory transmission experiments. Fla. State Bd. Health Monogr. 12:34-35.
- Trainer, D. O. and Hoff, G. L. 1971. Serologic evidence of arbovirus activity in a moose population in Alberta. J. Wildlife Dis. 7(2): 118-119.
- Wellings, F. M., Sather, G. E. and Hammon, W. M. 1971. Immunoelectrophoretic studies of the California encephalitis virus group. J. Immunol. 107(1):252-259.
- Williams, J. E., Young, O. P., Watts, D. M. and Reed, T. J. 1971. Wild birds as eastern (EEE) and western (WEE) equine encephalitis sentinels. J. Wildlife Dis. 7(3):188-194.
- Wong, Y. W., Dorsey, D. C., Humphreys, M. J. and Hausler, W. J., Jr. 1970. Arbovirus encephalitis surveillance in Iowa. Health Lab. Sci. 7(3):117-123.
- Woolfenden, G. E. and Rohwer, S. A. 1969. Bird populations in the suburbs of two woodland habitats in Pinellas County, Florida. Fla. State Bd. Health Monogr. 12:101-109. [In connection with SLE.]
- \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1969. Relative abundance of bird populations in residential suburbs in the Tampa Bay area of Florida. Fla. State Bd. Health Monogr. 12:110-117. [In connection with SLE studies.]
- ### FILARIASIS
- Ahmed, S. S. 1971. Filariasis in Sind. Pakistan Med. Assoc. J. 21(6):167-172.
- Ash, L. R. 1971. Preferential susceptibility of male jirds (*Meriones unguiculatus*) to infection with *Brugia pahangi*. J. Parasitol. 57(4):777-780.
- \_\_\_\_\_, \_\_\_\_\_ and Schacher, J. F. 1971. Early life cycle and larval morphogenesis of *Wuchereria bancrofti* in the jird, *Meriones unguiculatus*. J. Parasitol. 57(5):1043-1051.
- Basu, P. C. 1971. Animal filariasis in India. J. Parasitol. 57(4) sect. 2, pt. 1:58.
- \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ 1971. Interpretation of eight years' data in the control of *W. bancrofti* filariasis in urban areas of India by vector control using conventional antilarval measures. J. Parasitol. 57(4) sect. 2, pt. 1:57-58.
- \_\_\_\_\_, \_\_\_\_\_ and Coauthors. 1971. Control of human filariasis by incorporating diethyl-carbamazine in common salt consumed by the open community in a village endemic for *W. bancrofti* (Nelaturi Village, East Godavari district, Andhra Pradesh, India.) J. Parasitol. 57(4) sect. 2, pt. 1:58-59.
- \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ 1971. Observations made under a pilot study for the control of *B. malayi* filariasis with residual insecticide in Shertallai (Alleppey district, Kerala State, India). J. Parasitol. 57(4) sect. 2, pt. 1:57. [*Brugia malayi*.]
- Beaver, P. C., Fallon, M. and Smith, G. H. 1971. Pulmonary nodule caused by a living *Brugia malayi*-like filaria in an artery. Amer. J. Trop. Med. and Hyg. 20(5):661-666.
- Denham, D. A. and Coauthors. 1971. Comparison of a counting chamber and thick smear methods of counting microfilariae. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):521-526.
- Dennis, D. T. and Kean, B. H. 1971. Isolation of microfilariae: report of a new method. J. Parasitol. 57(5):1146-1147.
- Ewert, A. 1971. Distribution of developing and mature *Brugia malayi* in cats at various times after a single inoculation. J. Parasitol. 57(5):1039-1042.

- Jachowski, A. L., Jr. (Chairman, Task Force). 1971. Report on the parasitological programs related to human health and agriculture in developing countries. *J. Parasitol.* 57(4) sect. 2, pt. 2:153-177. [Includes data from discussions of 2nd Internat. Cong. Parasitol.]
- Kozek, W. J. 1971. Ultrastructure of the microfilaria of *Dirofilaria immitis*. *J. Parasitol.* 57(5):1052-1067.
- Lagroulet, J. and Bonnin, P. 1971. Lymphatic filariasis at Malicolo (New Hebrides, a preliminary study). *Soc. de Path. Exot. Bul.* 64(2):229-231. In Fr., Engl. Sum.
- Mallack, J., Sasse, B. and Ludlam, K. M. 1971. *Dirofilaria immitis* in hunting dogs from an area in Maryland. *Amer. Vet. Med. Assoc. J.* 159(2):177-179.
- Masuya, T. 1971. The autofluorescence, excited by ultra- and blue-violet rays, in the microfilariae, with special reference to their periodicity. *J. Parasitol.* 57(4) sect. 2, pt. 1:41.
- Mauranges, P. 1970. L'extension de *Culex pipiens fatigans* et de la filariose en Asie. Semaine Médicale Prof. et Médico-Sociale (Paris) 46(3):60.
- Ogunba, E. O. 1971. Studies on human filariasis in western Nigeria. *J. Parasitol.* 57(4) sect. 2, pt. 1:67.
- Ramachandran, C. P. 1971. Filariasis in a rubber plantation in Negeri Sembilan, West Malaysia. *Med. J. Malaya* 25(4):273-277. [*Brugia malayi*.]
- Rifaat, M. A., Mahdi, A. H., Wassif, S. F. and Morsy, T. A. 1971. Loss of mature larvae of *Wuchereria bancrofti* in relation to certain culicine mosquitoes. *Egypt Pub. Health Assoc. J.* 46(2):100-105.
- Rogers, R. C., Denham, D. A. and Nelson, G. S. 1971. The ultrastructure of the cuticle of some filarial worms. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):432.
- Roychowdhury, S. P., Kanan, A. M. and Das, M. 1969. Intake of microfilaria of *Wuchereria bancrofti* and *Dirofilaria repens* by *Culex pipiens fatigans* and *Aedes aegypti* respectively. *J. Commun. Diseases* 1(2):107-114.
- Southgate, B. A. and Desowitz, R. S. 1971. Comparative efficacy of the stained blood film, counting chamber and membrane filtration techniques in the determination of microfilarial rates and microfilarial densities. WHO FIL/71.91, 7 pp.
- Subbu, V. S. V. and Biswas, A. R. 1971. Ecblolic action of diethyl carbamazine. *Indian J. Med. Res.* 59(4):646-647.
- Tulloch, G. S. and Anderson, R. A. 1971. Acceptability of daily *l*-tetramisole by pound dogs infected with *Dirofilaria immitis*. *Nature (London)* 232(5315):644.
- Wheeling, C. H. and Hutchison, W. F. 1971. Disc electrophoresis and immunoelectrophoresis of soluble extracts of *Dirofilaria immitis*. *Jap. J. Expt. Med.* 41(3):171-176.
- White, G. B. 1971. The contrasting importance of *Culex pipiens fatigans* in transmission of Bancroftian filariasis under rural and urban conditions in East Africa. *J. Parasitol.* 57(4) sect. 2, pt. 1:55.
- Woodruff, A. W. and Nelson, G. S. 1971. Intestinal helminths and filariasis. *Practitioner* 207(1238):173-180.

## MALARIA

- Amato Neto, V., Camargo, M. E., Rebonato, C. and Feldman, K. B. 1970. Report of a case of post-transfusional malaria, with identification of the infected blood donor by means of fluorescent antibody test. *Inst. Med. Trop. S. Paulo Rev.* 12(6):423-426. In Por., Engl. Sum.
- Applegate, J. E. 1971. Spring relapse of *Plasmodium relictum* infections in an experimental field population of English sparrows (*Passer domesticus*). *J. Wildlife Dis.* 7(1):37-42.
- , Beaudoin, R. L. and Seeley, D. C., Jr. 1971. The effect of spring relapse in English sparrows on infectivity of malaria to mosquitoes. *J. Wildlife Dis.* 7(2):91-92.
- Barrett-Connor, E. 1971. Malaria—an "imported" disease to be reckoned with in the U.S. *Calif. Med.* 115(2):19-24.
- Beaudoin, R. L., Applegate, J. E., Davis, D. E. and McLean, R. G. 1971. A model for the ecology of avian malaria. *J. Wildlife Dis.* 7(1):5-13.
- Bruce-Chwatt, L. J. 1971. Malaria: the persistent threat. *Practitioner* 207(1238):143-146.
- Carswell, J. and Stevenson, D. J. D. 1971. Malaria in Edinburgh. *Scot. Med. J.* 16(5): 250-254.
- Demina, N. A., Glazunova, Z. I. and Chuksina, L. V. 1969. Studies on the characteristics in the course of malaria infection induced by different lines of the same causative agent in an animal experiment. *Epidemiol., Mikrobiol. i Infekciozni Bolesti (Sofiya)* 6(1):85-86. In Bulg.
- Denham, D. A., Ridley, D. S. and Voller, A. 1971. Immunodiagnosis of parasitic diseases. *Practitioner* 207(1238):191-196. [Includes malaria.]
- Dhir, S. L. and Coauthors. 1969. Focal outbreak of malaria caused by *P. malariae* in Tumkur district, Mysore State. *J. Commun. Diseases* 1(2):139-151.
- Eng, L. I. L., Lopez, C. G. and Lopes, M. 1971. Haemoglobin A<sub>2</sub> in malaria patients. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):480-483.
- Harwin, R. M. 1971. Malaria due to *Plasmodium ovale* in Rhodesia. *Cent. Afr. J. Med.* 17(7): 146-148.
- Hassan, M. M. 1971. Glucose-6-phosphate dehydrogenase deficiency in the Sudan. *J. Trop. Med. and Hyg.* 74(8):187-188. [In connection with malaria.]

- Juminer, B. 1970. Le paludisme est-il une anthropozoonose? Inst. Pasteur Tunis Arch. 47(3):229-241.
- Konotey-Ahulu, F. I. D. 1971. Malaria and sickle-cell disease. Brit. Med. J. 5763:710.
- Loose, L. D., Trejo, R. and Di Luzio, N. R. 1971. Impaired endotoxin detoxification as a factor in enhanced endotoxin sensitivity of malaria infected mice. Soc. Expt. Biol. and Med. Proc. 137(3):794-797.
- Maskrey, P., Fletcher, K. A. and Maegraith, B. G. 1971. Non-ultrafiltrable inhibitory substances in serum from *P. knowlesi*-infected monkeys. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4): 418-419.
- McEwen, C. R. and Coauthors. 1971. Centrifugal elutriation for the removal of leukocytes from malaria-infected monkey blood. J. Parasitol. 57(4):887-890.
- McGregor, I. A. 1970. Current trends in epidemiology and immunology of malaria. Indus. and Trop. Health 7:106-112.
- Melino, C. and Garbagnati, N. 1971. Cinquanta anni di lotta contro la malaria nell'ambito delle Ferrovie dello Stato. Igiene e Sanità Pubblica (Rome) 27(1/2):13-14. Engl. Sum.
- Muto, T. and Komoriya, T. 1971. Peripheral schizontaemia in falciparum malaria. Jap. J. Expt. Med. 41(3):253-256.
- Rozeboom, L. E. 1971. DDT: the life-saving poison. Johns Hopkins Mag. (Spring):29-32. [Malaria.]
- Saint-Yves, I. F. M. 1970. Health education in the Territory malaria programme. Papua and N. Guinea Med. J. 13(2):73-75.
- Sartiano, G. P., Rowden, R. M. and Ginsburg, D. M. 1971. Malaria acquired in United States; introduced and cryptic. N.Y. State J. Med. 71(12):1535-1537.
- Seymour, A. 1971. Malaria and sickle-cell disease. Brit. Med. J. 5763:710.
- Shute, P. G. and Maryon, M. 1971. Two fatal cases of *P. falciparum* malaria from tropical Africa. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):416-417.
- Suntharasamai, P. and Marsden, P. D. 1971. Studies of splenomegaly in rodent malaria. II. The course of splenomegaly, IgM, IgG levels and IgG immunofluorescent antibody titre in mice after infection with *Plasmodium berghei yeoli* and/or *Plasmodium chabaudi*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):490-500.
- Theakston, R. D. G. and Fletcher, K. A. 1971. An electron cytochemical study of glucose-6-phosphate dehydrogenase activity in erythrocytes of malaria-infected mice, monkeys and chickens. Life Sciences Pt. II. 10(12):701-711.
- Thurnham, D. I., Fletcher, K. A. and Maegraith, B. G. 1971. The inhibition of mitochondrial respiration and oxidative phosphorylation by serum from malaria-infected animals. I: The contribution of bilirubin and non-esterified fatty acids to the inhibitory activity in *Plasmodium knowlesi* and *Plasmodium berghei* malaria. II: The inhibitory activity of serum ultrafiltrates from *Plasmodium knowlesi*-infected monkeys. III: Sephadex separation in inhibitory serum ultra-filtrates from *Plasmodium knowlesi*-infected monkeys and *Plasmodium berghei*-infected mice. Ann. Trop. Med. and Parasit. 65(3):275-285; 287-295; 297-307.
- Toh Keng Kiat and Yeo Kim Leng. 1971. The present trend of malarial infection in Singapore. Singapore Med. J. 12(1):2-7.
- Vaughn, J. P. 1970. Acute renal failure, renal disease and malaria. Papua and N. Guinea Med. J. 13(2):69-72.
- Walters, J. H. 1971. Malaria and other febrile conditions. Practitioner 207 (1238):147-153. See also Jachowski in Filariasis Section.
- Malaria—Eradication**
- Bakradze, T. L. 1971. On the problem of quartan malaria eradication in the Georgian SSR. Med. Parazit. i Parazit. Bolezni 40 (4): 434-437. In Rus., Engl. Sum.
- Benassai, A. 1970. Procedimientos de control de actividades en la campaña de erradicación de la malaria. Bol. Inform. (Dir. de Malaria. y San. Amb.) 10(1/2):3-8.
- Fernandez Maruto, J. J. 1970. La nueva estrategia de la erradicación del paludismo. Medna Trop. 28(1/4):132-139.
- Grossi, R. 1970. Conceptos sobre erradicación y control de la malaria en África tropical y América del Sur. Síntesis interpretativa. Bol. Inform. (Dir. de Malaria. y San Amb.) 10 (1/2):20-24.
- Todorov, T. and Coauthors. 1968. Epidemiological characteristics of quartan malaria during the period of malaria eradication in Bulgaria. Epidemiol., Mikrobiol. i Infekciozni Bolesti (Sofiya) 5(3):234-241. In Bulg., Engl. Sum.
- Yalinich, L. I. and Godina, R. N. 1970. Prophylaxis of malaria and its peculiarities in the period of practical eradication. Zdravookhr. Turkmen. Ashabad SSSR No. 6:23-25. In Rus.
- See also Gabaldon in Cost Analysis Section.
- Malaria—Immunology**
- Corradetti, A., Verolini, F., Bucci, A. and Pennacchio, A. E. 1969. Duration of immunity of the white rat to infection with *Plasmodium berghei* (Istisan strain) after vaccination with the homologous irradiated strain. Parassitologia 11(3):129-134. In Ital., Engl. Sum.
- \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1969. Immunizing power of the non-water-soluble fraction of *Plasmodium berghei* (Istisan strain). Parassitologia 11(3):151-159. In Ital., Engl. Sum.
- \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. 1969.

- Technique for obtaining non-water-soluble fractions of *Plasmodium berghei* for immunological studies. *Parasitologia* 11(3):145-149. In Ital., Engl. Sum.
- Criswell, B. S., Butler, W. T., Rossen, R. D. and Knight, V. 1971. Murine malaria: the role of humoral factors and macrophages in destruction of parasitized erythrocytes. *J. Immunol.* 107(1):212-221.
- Fabiani, G. 1971. La prémutation. Son interprétation en fonction des données actuelles de l'immunologie. *Soc. de Path. Exot. Bul.* 64(2): 139-151. Engl. Sum. [Includes *Plasmodium*.]
- Jerusalem, C., Weiss, M. L. and Poels, L. 1971. Immunologic enhancement in malaria infection (*Plasmodium berghei*). *J. Immunol.* 107(1): 260-268.
- McGregor, A. and Wilson, R. J. M. 1971. Gel diffusion and immunity to malaria. *J. Parasitol.* 57(4) sect. 2, pt. 1:66.
- Richards, W. H. G. 1971. Active immunization in rodent malaria using inactivated sporozoites as antigens. *J. Parasitol.* 57(4) sect. 2, pt. 1:29.
- Roberts, J. A. 1971. Some quantitative aspects of the adoptive transfer of immunity to *Plasmodium berghei* with immune spleen cells. *J. Protozool.* 18(3):437-440.
- Sengers, R. C. A. 1971. Immunosuppression in malaria. *Lancet* 7699:594.
- Voller, A. 1971. Aspects of immunodiagnosis of malaria. *J. Parasitol.* 57(4) sect. 2, pt. 1:69.
- Malaria—Parasites**
- Aikawa, M. and Cook, R. T. 1971. Ribosomes of the malarial parasite, *Plasmodium knowlesi*—II. Ultrastructural features. *Compar. Biochem. and Physiol.* 39B(4):913-917.
- Cook, R. T., Rock, R. C., Aikawa, M. and Fournier, M. J., Jr. 1971. Ribosomes of the malarial parasite, *Plasmodium knowlesi*—I. Isolation, activity and sedimentation velocity. *Compar. Biochem. and Physiol.* 39B(4):897-911.
- Dasgupta, B. 1971. A virus disease of the malaria parasite. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):541.
- Davies, E. E., Howells, R. E. and Venters, D. 1971. Microbial infections associated with plasmodial development in *Anopheles stephensi*. *Ann. Trop. Med. and Parasitol.* 65(3):403-407.
- Draper, C. C., Dorrell, J., Shute, P. G. and Baftort, J. 1971. Exo-crythrocytic schizogony of *Plasmodium vivax* in *Aotus* monkeys. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):417-418.
- Gutteridge, W. E., Trigg, P. I. and Cover, B. 1971. A rapid method for the complete removal of white cells from large batches of monkey blood infected with the trophozoite- and schizont-stages of *Plasmodium knowlesi*. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4): 418.
- Howells, R. E. and Davies, E. E. 1971. Post-meiotic nuclear divisions in the oöcyst of *Plasmodium berghei*. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):421.
- Hulls, R. H. 1971. The adverse effects of a microsporidian on sporogony and infectivity of *Plasmodium berghei*. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):421-422.
- Jordan, H. B. and Friend, M. B. 1971. The occurrence of *Schellackia* and *Plasmodium* in two Georgia lizards. *J. Protozool.* 18(3): 485-487.
- Killick-Kendrick, R. and Bellier, L. 1971. Blood parasites of scaly-tailed flying squirrels in the Ivory Coast. *Roy. Soc. Trop. Med. and Hyg. Trans.* 65(4):430-431. [Includes *Plasmodium*.]
- Kocan, R. M. and Knisley, J. O., Jr. 1971. The bubblehead (*Busephala albeola*): a new host for *Plasmodium*. *J. Wildlife Dis.* 7(1):35.
- Lantz, C. H., Van Dyke, K. and Carter, G. 1971. *Plasmodium berghei*: in vitro incorporation of purine derivatives in nucleic acids. *Expt. Parasitol.* 29(3):402-416.
- Luse, S. A. and Miller, L. H. 1971. *Plasmodium falciparum* malaria. Ultrastructure of parasitized erythrocytes in cardiac vessels. *Amer. J. Trop. Med. and Hyg.* 20(5):655-660.
- Miller, L. H. and Chien, S. 1971. Density distribution of red cells infected by *Plasmodium knowlesi* and *Plasmodium coatneyi*. *Expt. Parasitol.* 29(3):451-456.
- Miller, L. H., Usami, S. and Chien, S. 1971. Alteration in the rheologic properties of *Plasmodium knowlesi*-infected red cells. A possible mechanism for capillary obstruction. *J. Clin. Investig.* 50(7):1451-1455.
- Nowell, F. 1970. The effect of a milk diet upon *Plasmodium berghei*, *Nuttallia (Babesia) rodhaini* and *Trypanosoma brucei* infections in mice. *Parasitology* 61(3):425-433.
- Peters, W. 1971. Adaptation of the malaria parasite to its environment during the life cycle. *J. Parasitol.* 57(4) sect. 2, pt. 2:120-125.
- Rieckmann, K. H. 1971. Drug sensitivity of *Plasmodium falciparum*. *Amer. Med. Assoc. J.* 217(5):573-578.
- Rinehart, J. J., Balcerzak, S. P. and LoBuglio, A. F. 1971. Study of the malarial parasite-red cell relationship with the use of a new immunologic marker. *J. Lab. and Clin. Med.* 78(1):167-171.
- Scorza, J. V. 1971. Asexual and sexual stages of a malaria parasite in the thrombocytes of *Tropidurus torquatus* (Iguanidae) infected with *Plasmodium tropiduri*. *J. Protozool.* 18 (3):403-410.
- Sherman, I. W. 1971. Protein synthesis by malaria parasites. *J. Parasitol.* 57(4) sect. 2, pt. 1:43-44.
- , Peterson, I., Tanigoshi, L. and Ting, I. P. 1971. The glutamate dehydrogenase of *Plasmodium lophurae* (avian malaria). *Expt. Parasitol.* 29(3):433-439.
- Sizaret, P., O'Conor, G. T., Beaumont, R. and Laval, M. 1971. Serum protein patterns in

- mice following primary and challenge infection with *Plasmodium berghei*. Z. Tropenmed. u. Parasitol. 22(3):260-270. In Engl.
- Szudarski, M. 1971. The course of *Plasmodium berghei* parasitemia in mice with experimental variation of thyroid function. Inst. Marine Med. Gdansk Bul. 22(1/2):49-55. In Engl.; Pol. and Rus. Sum.
- Theakston, R. D. G. and Fletcher, K. A. 1971. Electron cytochemical study on glucose-6-phosphate dehydrogenase activity in erythrocytes of *Aotus* monkeys infected with *Plasmodium falciparum*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):417.
- Trager, W. 1971. Malaria parasites (*Plasmodium lophurae*) developing extracellularly *in vitro*: incorporation of labeled precursors. J. Protozool. 18(3):392-399.
- Walter, R. D. and Königk, E. 1971. Synthesis of desoxythymidylate synthetase and dihydrofolate reductase in *Plasmodium chabaudi* during synchronous schizogony. Z. Tropenmed. u. Parasitol. 22(3):250-255. In Ger., Engl. Sum.
- Warhurst, D. C. and Robinson, B. L. 1971. Cytotoxic agents and haemozooin pigment in malaria parasites (*Plasmodium berghei*). Life Sciences Pt. II. 10(13):755-760.
- \_\_\_\_\_, Howells, R. E. and Peters, W. 1971. The effect of cytotoxic agents on autophagic vacuole formation in chloroquine-treated malaria parasites (*Plasmodium berghei*). Life Sciences Pt. II. 10(13):761-771.
- Weathersby, A. B. 1971. Cryopreservation of malaria. J. Parasitol. 57(4) sect. 2, pt. 1:33-34.
- Williamson, J. and Cover, B. 1971. Removal of white blood cells from gametocyte-, schizont-, trophozoite- and ring stages of *Plasmodium falciparum*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):416.
- Yoeli, M. and Most, H. 1971. Sporozoite-induced infections of *Plasmodium berghei* administered by the oral route. Science 173(4001):1031-1032.
- Malaria—Simian**
- Collins, W. E., Contacos, P. G., Skinner, J. C. and Guinn, E. G. 1971. Studies on the transmission of simian malaria. IV. Further studies on the transmission of *Plasmodium knowlesi* by *Anopheles balabacensis balabacensis* mosquitoes. J. Parasitol. 57(5):961-966.
- Deane, L. M. and Coauthors. 1971. Malária de macacos no Estado do Pará, Brasil. Inst. Med. Trop. São Paulo Rev. 13(3):167-170. Engl. Sum.
- Malaria—Therapeutics and Antimalarials**
- Benjapongs, W., Sadudi, N. and Noeypatimanond, S. 1970. Trimethoprim sulphamethoxazole combination in the treatment of falciparum malaria. Med. Assoc. Thailand J. 53(12):849-856.
- Do Amaral, J. R., French, F. A., Blanz, E. J., Jr. and French, D. A. 1971. Antimalarial activity of guanylhydrazone salts of aromatic ketones. 2. Development of active polyhalo derivatives. J. Medicinal Chem. 14(9):862-864.
- Ebisawa, I., Muto, T., Mitsui, G. and Kameko, S. 1971. Malaria at Nam Ngum Dam construction site in Laos. I. Suppression with combinations of sulfonamides and pyrimethamine. Jap. J. Expt. Med. 41(3):209-219.
- Ebringer, A. 1971. Chloroquine myopathy. Brit. Med. J. 5764:770-771.
- Heischkeil, R. 1971. Therapeutic effect of trypanocidal drugs Berenil and Pentamidine on rodent malaria (*Plasmodium vinckeii*). Z. Tropenmed. u. Parasitol. 22(3):243-249. In Ger., Engl. Sum.
- Homewood, C. A., Warhurst, D. C. and Baggaley, V. C. 1971. A physico-chemical explanation for the clumping of malaria pigment by chloroquine. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):423-424.
- Kramer, P. A. and Matusik, J. E. 1971. Location of chloroquine binding sites in *Plasmodium berghei*. Biochem. Pharmacol. 20(7):1619-1626.
- Länsimies, E., Laaksonen, A. L., Juva, K. and Hirvonen, L. 1971. Acute cardiotoxicity of chloroquine and hydroxychloroquine in dogs. Ann. Med. Expt. Biol. Fenn. 49(1):45-48.
- Larkworthy, W. 1971. Acute chloroquine poisoning. Practitioner 207(1238):212-214.
- Mazaud, R. and Coauthors. 1970. L'association sulfamétopyrazine-pyriméthamine dans le traitement de 100 accès palustres à *P. falciparum*. Méd. Trop. (Marseille) 30(6):759-766. Engl. Sum.
- Miyares Cao, C. M. and Coauthors. 1970. Beta-adrenergic blocking action of chloroquine on the myocardium. Cub. Med. Trop. Rev. 22 (1/3):63-76. In Span., Engl. Sum.
- Richards, W. H. G. and Williams, S. G. 1971. Action of some antimalaria compounds against *Plasmodium berghei* *in vitro*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):420.
- Rieckmann, K. H., Willerson, D. Jr. and Carson, P. E. 1971. Drug potentiation against pre-erythrocytic stages of *Plasmodium falciparum*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):533-535.
- Szilágyi, T. and Kávai, M. 1970. The effect of chloroquine on the antigen-antibody reaction. Acta Physiol. (Hungary) 38(4):411-417. In Engl.
- Terzakis, J. A. 1971. Trimethoprim effect on *Plasmodium gallinaceum* oocysts. J. Parasitol. 57(5):907.
- Theakston, R. D. G., Ali, S. N. and Moore, G. A. 1971. Electron microscope autoradiographic studies on the effect of chloroquine on the uptake of nucleosides by *Plasmodium berghei*. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):423.
- Tiburskaya, N. A., Sergiev, P. G. and Morkovkin, V. M. 1971. Radical chemoprophylaxis of tertian malaria with two types of incubation

but with prevalence of the short one. Med. Parazit. i. Parazit. Bolezni 40(4):431-433. In Rus., Engl. Sum.

Trigg, P. I., Gutteridge, W. E. and Williamson, J. 1971. The effects of cordycepin on malaria parasites. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):514-520.

Walter, R. D. and Königk, E. 1971. *Plasmodium chabaudi*: enzymatic synthesis of dihydropterate and inhibition of this process by sulfonamides. Z. Tropenmed. u. Parasitol. 22(3):256-259. In Ger., Engl. Sum.

#### Malaria—Antimalarials—Resistance

Ali, S. N. and Fletcher, K. A. 1971. 1. Metabolic studies on a chloroquine-resistant *P. berghei* derived from a sensitive strain. 2. Further studies on the carbohydrate metabolism of malaria parasites. Roy. Soc. Trop. Med. and Hyg. Trans. 65(4):419-420.

Dupoux, R., Aldighieri, J. and Blancard, A. 1971. Essais d'obtention d'une souche de *Plasmodium berghei* résistante à l'association kelfizine-pyriméthamine à partir d'une souche préalablement rendue sulfamido-résistante. Soc. de Path. Exot. Bul. 64(2):214-219. Engl. Sum.

Fung, W. P. 1971. Malaria resistant to chloroquine and sulphamethoxine-pyrimethamine. Austral and N. Zeal. J. Med. 1(3):262-264.

Peters, W. 1971. The mechanisms of drug resistance in malaria parasites. J. Parasitol. 57(4) sect. 2, pt. 2:103-107.

#### YELLOW FEVER

Converse, J. L. and Coauthors. 1971. Virulence and pathogenesis of yellow fever virus serially passaged in cell culture. Appl. Microbiol. 21 (6):1053-1057.

Dion Mar, I., Ayats, H. and Rey, M. 1970. The problem of post-yellow fever vaccination encephalitis. Soc. Méd. Afr. Noire Lang. Fr. Bul. 15(3):468-479. In Fr., Engl. Sum.

Soper, F. L. 1971. Cooperation in research and communication toward the solution of global problems in parasitology. J. Parasitol. 57(4) sect. 2, pt. 2:131-136.

Zisman, B., Wheelock, E. F. and Allison, A. C. 1971. Role of macrophages and antibody in resistance of mice against yellow fever virus. J. Immunol. 107(1):236-243.

#### EXPERIMENTAL HOSTS OR VECTORS

Bain, O. and Philippon, B. 1969. Mechanism of passage of microfilaria across the stomach wall of vector; its importance in the transmission of onchocerca. Comptes Rendus Ser. D. 269(12): 1081-1083. In Fr. [Anopheles stephensi included.]

\_\_\_\_ and \_\_\_\_\_. 1970. Mécanisme de la traversée de la paroi stomacale per les micro-

filaires chez *Anopheles stephensi* et *Simulium damnosum*. Mise en évidence d'un séjour des microfilariae dans l'épithélium digestif. Ann. de Parasitol. Humaine et Compar. 45(3):295-320. Engl. Sum.

Ho, B. C. and Kan, S. P. 1971. Evidence of the intracellular development of *Breinlia sergenti* (Dipctalonematidae) in the fat cells of mosquito. J. Parasitol. 57(5):1145-1146 [Aedes togoi.]

Landau, I., Chabaud, A. G., Michel, J. C. and Brygoo, E. R. 1970. Données nouvelles sur le cycle évolutif d'*Hepatozoon domerguei*; importance de l'endogénèse; analogies avec d'autres cycles de Coccidies. Comptes Rendus Ser. D. 271(19):1679-1681. [Mosquitos as vectors.]

Poinar, G. O., Jr. and Leutenegger, R. 1971. Ultrastructural investigation of the melanization process in *Culex pipiens* (Culicidae) in response to a nematode. J. Ultrastruct. Res. 36(1/2):149-158.

See also Dadd in Parasites, Predators, Viruses and Related Agents Section and Gaidamovich et al. in Encephalitis Section.

#### LIGHT AND OTHER TRAP STUDIES

Davies, J. B. 1971. A small mosquito trap for use with animal or carbon dioxide baits. Mosquito News 31(3):441-443.

#### LITERATURE REFERENCES AND REVIEWS

Dukhanina, N. N. 1971. National literature on problems of medical parasitology and parasitic diseases for 1971. Med. Parazit. i. Parazit. Bolezni 40(4):502-506. In Rus. [Mosquitos included.]

Sollers-Riedel, H. 1971. Literature references to mosquitoes and mosquito-borne diseases. Mosquito News 31(3):459-475.

#### BIOGRAPHY AND HISTORY

Institut Pasteur d'Algérie. 1969. Edmond Sergent (1876-1969). Inst. Pasteur Algérie Arch. 47:7-10.

Rashina, M. G. 1971. Central Malaria Commission. (To the history of malaria control in the USSR). Med. Parazit. i Parazit. Bolezni 40(4):475-476. In Rus.

#### BOOKS

Beck, J. W. and Barrett-Conor, E. 1971. Medical parasitology. 210 pp., St. Louis. C. V. Mosby Co.

Bursell, E. 1970. An introduction to insect physiology. 276 pp., London, New York. Academic Press. [Mosquitos noted.]

Busvine, J. R. 1971. A critical review of the techniques for testing insecticides. Edition 2. 345 pp. Issued by Commonwealth Institute of Entomology.

- Garnham, P. C. C. 1971. Progress in parasitology. 224 pp., New York. Oxford Univ. Press. [Includes much on malaria.]
- Leader, R. W. and Leader, I. 1971. Dictionary of comparative pathology and experimental biology. 238 pp., Philadelphia. W. B. Saunders Co.
- Lewis, R. A. 1970. Sickle states: clinical features in West Africans. 138 pp., Accra. Ghana Univ. Press. [Malaria included.]
- Maas, W. and Philips-Duphar, N. V. 1971. ULV application and formulation techniques. 164 pp., Amsterdam. Crop. Protection Division Amsterdam.
- Smith, D. S. 1968. Insect cells. Their structure and function. 372 pp., Edinburgh. Oliver and Boyd publishers. [Includes mosquitoes.]
- Trencséni, T. and Keleti, B. 1971. Clinical aspects and epidemiology of haemorrhagic fever with renal syndrome. Analysis of clinical and epidemiological experiences in Hungary. 247 pp., Budapest. Akadémiai Kiado. [Includes data on haemorrhagic fever in other countries.]
- Weiser, J. 1969. An atlas of insect diseases. 292 pp., Prague. Shannon, Irish Univ. Pr. [Includes diseases of mosquitoes.]
- Wigglesworth, V. B. 1970. Insect hormones. 159 pp., Edinburgh. Oliver and Boyd. [Includes mosquitoes.]
- Worth, C. B. 1971. Mosquito safari: a naturalist in southern Africa. 316 pp., New York. Simon and Schuster.

#### NEW PERIODICALS

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#### ERRATUM

In Mosquito News 31(2):310—spelling of the virus listed by Digoutte et al. should be spelled Bouboui, *not* Boubou.

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