

LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

HELEN SOLLERS-RIEDEL¹

Plant Protection Division, Agricultural Research Service, United States Department of Agriculture

ADULTICIDES AND LARVICIDES

- BROOKS, G. D., NERI, P., GRATZ, N. G. and WEATHERS, D. B. 1970. Preliminary studies on the use of ultra-low-volume applications of malathion for control of *Aedes simpsoni*. WHO Bul. 42(1):37-54.
- FONTAINE, R. E. and COAUTHORS. 1970. Annual report of the World Health Organization/*Anopheles* control research Unit I for 1969. WHO/VBC/70. 191, 25 pp.
- HADAWAY, A. B. and COAUTHORS. 1970. Evaluation of compounds for insecticidal activity on adult mosquitoes. 1. Responses of adult mosquitoes to some new insecticides. 2. Toxicity to adult mosquitoes and the physical properties of some new carbamates. 3. Properties of some N-methyl-thiolcarbamates. 4. Insecticidal activity and physical properties of some halogenated organophosphorus esters. 5. Toxicity to adult mosquitoes and residual properties of some pyrethroids. WHO Bul. 42(3):353-368; 369-375; 377-379; 381-385; 387-398.
- KILPATRICK, J. W., ELIASON, D. A. and BABBITT, M. F. 1970. Studies of the potential effectiveness of ultra low volume aerial applications of insecticides against *Aedes aegypti* (L.) larvae. Mosquito News 30(2):250-258.
- KILPATRICK, J. W., TONN, R. J. and JATANASEN, S. 1970. Evaluation of ultra-low-volume insecticide dispensing systems for use in single-engined aircraft and their effectiveness against *Aedes aegypti* populations in South-East Asia. WHO Bul. 42(1):1-14.
- KINBALL, J. H. and PERRUZZI, N. D. 1970. Flit MLO preferred for mosquito control in residential areas. Mosquito News 30(2):128-130.
- LOFGREN, C. S. and COAUTHORS. 1970. The effectiveness of ultra-low-volume applications of malathion at a rate of 3 US fluid ounces per acre in controlling *Aedes aegypti* in Thailand. WHO Bul. 42(1):27-35.
- LOFGREN, C. S., FORD, H. R., TONN, R. J. and JATANASEN, S. 1970. The effectiveness of ultra-low-volume applications of malathion at a rate of 6 US fluid ounces per acre in controlling *Aedes aegypti* in a large-scale test at Nakhon Sawan, Thailand. WHO Bul. 42(1):15-25.
- MOUNT, G. A., BALDWIN, K. F. and LOFGREN, C. S. 1970. Effectiveness of seven promising mosquito adulticides. Mosquito News 30(2):213-214.
- MULLA, M. S. 1970. Methodology of control. Integrated control of mosquitoes, chemical measures against pre-imaginal stages. Ent. Soc. Amer. Misc. Pub. 7(1):78-96. [Discussion pp. 96-98.]
- ROSEN, P., FONTAINE, R. E. and SUNDARAMAN, S. 1970. A village scale trial of OMS-597 for the control of *An. gambiae* and *An. funestus* in Northern Nigeria. WHO/VBC/70.192, 10 pp.
- SELF, L. S. and TUN, M. M. 1970. Summary of field trials (1964-1969) in Rangoon, Burma using organo-phosphorus larvicides and oils against *Culex pipiens fatigans* in polluted water. WHO/VBC/70.187, 22 pp.
- _____, _____, and ABDULCADE, M. H. M. 1970. Breeding sites of *Culex pipiens fatigans* in Kemmendine area of Rangoon after larvicing with fenthion. WHO/VBC/70.182, 11 pp.
- UMINO, T. and SUZUKI, T. 1969. Effect of two new insecticides, Abate and Dursban, on larvae and adults of mosquitoes. Jap. J. Sanit. Zool. 20(2):95-99. In Jap., Engl. Sum.
- WAGNER, V. E. 1970. Evaluation of five percent methoxychlor granules as a preseason larvicide. Mosquito News 30(2):170-174.
- WEIDHAAS, D. E. and COAUTHORS. 1970. Relationship of minimum lethal dose to the optimum size of droplets of insecticides for mosquito control. Mosquito News 30(2):195-200.
- WILSON, H. G., GAHAN, J. B. and LABRECQUE, G. C. 1970. Residual effectiveness of some new insecticides against *Anopheles quadrimaculatus*. Mosquito News 30(2):258-261.
- See also Kamimura et al. in Behavior, Biology and Ecology Section.

OVICIDES

- JAKOB, W. L., FAY, R. W. and WILTON, D. P. 1970. Field trials of an amine ovicide against *Aedes aegypti* (L.). Mosquito News 30(2):191-194.

VARIOUS TYPES OF CONTROL

- ALLAN, J. R., McDONALD, S. and HALL, N. W. 1970. Carbon dioxide pressurized aquatic herbicide sprayer. Pest Articles and News Sum. 16(2): 304-306.

¹ Complete mailing address: P.O. Box 19009, Washington, D.C. 20036. USA.

AMONKAR, S. V. and REEVES, E. L. 1969. Mosquito control with active principle of garlic, *Allium sativum*. WHO/VBC/69.174, 13 pp.

CRAIG, G. B., JR. 1970. Hormones for control of *Anopheles*. Ent. Soc. Amer. Misc. Pub. 7(1): 130-133.

IKEUCHI, M. 1968. Farming villages and *Culex tritaeniorhynchus*. Nogyo Gijutsu 23(3):31-33. In Jap.

STERILIZATION METHODS

DAVIDSON, G. and KITZMILLER, J. B. 1970. Application of new procedures to control. Genetic control of anophelines. Ent. Soc. Amer. Misc. Pub. 7(1):118-126. [Discussion pp. 126-129.]

DAVIDSON, G., ODETOMINBO, J. A., COLUSSA, B. and COZ, J. 1970. A field attempt to assess the mating competitiveness of sterile males produced by crossing 2 member species of the *Anopheles gambiae* complex. WHO Bul. 42(1):55-67.

GROVER, K. K. and PILLAI, M. K. K. 1970. Mating ability and permanency of sterility in hempa-sterilized males of the yellow-fever mosquito, *Aedes aegypti* (L.). J. Med. Ent. 7(2):198-204.

MCCRAY, E. M., JR. and SCHOOF, H. F. 1970. Laboratory behavior of *Culex pipiens quinquefasciatus* and the effects of tepla, metepa, and apholate upon its reproduction. Mosquito News 30(2):149-155.

PATTERSON, R. S., WEIDHAAS, D. E., FORD, H. R. and LOFGREN, C. S. 1970. Suppression and elimination of an island population of *Culex pipiens quinquefasciatus* with sterile males. Science 168(3937):1368-1370.

PILLAI, M. K. K. and AGARWAL, H. C. 1969. Effect of apholate and hempa on nucleic acid and protein syntheses in the yellow fever mosquito. Ent. Expt. et Applicata 12(4):413-422.

POWELL, J. R. and CRAIG, G. B., JR. 1970. Inhibition of male accessory glands of *Aedes aegypti* by larval treatment with apholate. J. Econ. Ent. 63(3):745-748.

SHERMAN, M. and HERRICK, R. B. 1970. Acute toxicity of five insect chemosterilants, hemel, hempa, tepla, metepa, and methotrexate, for cockerels. Toxicol. and Appl. Pharmacol. 16(1): 100-107.

AEDES AEGYPTI ERADICATION

PAN AMERICAN SANITARY BUREAU. 1970. Informe de Marzo 1970 sobre la campaña de erradicación del *Aedes aegypti* en las Américas. Bol. Ofic. Sanit. Panamer. 68(5):455.

MOSQUITO CONTROL AGENCY PROBLEMS

CALIFORNIA MOSQUITO CONTROL ASSOCIATION. 1970. Year book. 59 pp.

THOMPSON, G. A. 1970. Operating the Jefferson County (Texas) Mosquito Control District. Mosquito News 30(2):240-246.

PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS

BURANAREK, A. and CAMARILLO, F. Q. 1968. The comparative efficiency of four fishes predatory on mosquito larvae in Araneta University Foundation compound. Araneta J. Agr. 15(1):46-60.

CHAPMAN, H. C., CLARK, T. B. and PETERSEN, J. J. 1970. Protozoans, nematodes, and viruses of anophelines. Ent. Soc. Amer. Misc. Pub. 7(1): 134-139. [Discussion pp. 154-155.]

ELLIS, R. A. and BORDEN, J. H. 1970. Predation by *Notonecta undulata* (Heteroptera: Notonectidae) on larvae of the yellow-fever mosquito. Ent. Soc. Amer. Ann. 63(4):963-973.

GOODYEAR, C. P. and FERGUSON, D. E. 1969. Sun-compass orientation in the mosquitofish, *Gambusia affinis*. Animal Behaviour 17(4):636-640.

GUDZHABIDZE, SH. I. and STRELTSOV, V. P. 1970. A mode of transportation of gambusia. Med. Parazit. i Parazit. Bolezni 39(3):360-361. In Rus.

HOY, J. B. and REED, D. E. 1970. Biological control of *Culex tarsalis* in a California rice field. Mosquito News 30(2):222-230. Same title also in WHO/VBC/70.194, 11 pp.

ROBERTS, D. W. 1970. *Coelomomyces*, *Entomophthora*, *Beauveria*, and *Metarrhizium* as parasites of mosquitoes. Ent. Soc. Amer. Misc. Pub. 7(1):140-154. [Discussion pp. 154-155.]

TABIBZADEH, I., BEHBEHANI, G. and NAKHAI, R. 1970. Use of gambusia fish in the malaria eradication programme of Iran. WHO/MAL/70.716, WHO/VBC/70.198. 13 pp.

UMPHLETT, C. J. 1970. Infection levels of *Coelomomyces punctatus*, an aquatic fungus parasite, in a natural population of the common malaria mosquito, *Anopheles quadrimaculatus*. J. Invert. Path. 15(3):299-305.

VAVRA, J. and UNDEEN, A. H. 1970. *Nosema algerae* n. sp. (Cnidosporea, Microsporida), a pathogen in a laboratory colony of *Anopheles stephensi* Liston (Diptera, Culicidae). J. Protozool. 17(2):240-249. [n. sp.]

EQUIPMENT

ANDERSON, C. H. and SCHULTE, W. J. 1970. Conversion of thermal foggers of ULV application. Mosquito News 30(2):209-212.

GLANCEY, B. M., FORD, H. R. and LOFGREN, C. S. 1970. Evaluation of a fuselage-mounted spray boom for ultra-low volume application of insecticides for mosquito control. Mosquito News 30(2):174-180.

- KOLTA, S. and KUO, C. 1970. Field and laboratory trial of disc flow regulators and even-spray nozzle tips in the United Arab Republic. WHO/MAL/70.709, WHO/VBC/70.183, 19 pp., illus.
- LOFGREN, C. S., FORD, H. R., TONN, R. J. and JATANASEN, S. 1970. Equipping a multi-engined aircraft with a fuselage-mounted spray system for the ultra-low-volume application of malathion. WHO Bul. 42(1):157-163.
- PEST CONTROL. 1970. Pest Control's 1970 equipment directory. Pest Control 38(5):50-66, 68, 70, 72-74, 77.
- RAMKE, D. 1970. Barlow Booster submersible pumps. Mosquito News 30(2):268-269.
- STASIAK, R. S., GROTHAUS, R. H. and MINER, W. F. 1970. Susceptibility of *Aedes albopictus* (Skuse) larvae from South Vietnam to five insecticides, 1969. Mosquito News 30(2):246-249.
- SUZUKI, T. 1969. Characterization and separation of insect populations into phenotypes for resistance or susceptibility to insecticides. Jap. J. Expt. Med. 39(5):441-459. [Includes *Culex pipiens*.]
- THOMAS, V. 1970. Fenthion-resistance in *Culex pipiens fatigans* Wiedemann in Kuala Lumpur, West Malaysia. Southeast Asian J. Trop. Med. and Pub. Health 1(1):93-98.

ATTRACTANTS AND REPELLENTS

CHADWICK, P. R. 1970. The activity of *dl*-allethrolone *d-trans* chrysanthemate and other pyrethrins in mosquito coils. Mosquito News 30(2):162-170.

KAZHDAN, V. B., KULESHOV, V. I., POZHARIS-KAYA, T. D. and SAVINSKY, YA. R. 1970. Toxicological trials of a new insect repellent Hexamethylenebutansulfamide. Med. Parazit. i Parazit. Bolezni 39(2):220-224. In Rus., Engl. Sum.

KOSHKINA, I. V. and KHARITONOVА, S. I. 1970. Ethylcellose as a prolongator of repellents. Communication II. Med. Parazit. i Parazit. Bolezni 39(2):224-227. In Rus., Engl. Sum. [Mosquitoes tested.]

NAYAR, J. K. and SAUERMAN, D. M., JR. 1970. A comparative study of growth and development in Florida mosquitoes. Part 1: effects of environmental factors on ontogenetic timings, endogenous diurnal rhythm and synchrony of pupation and emergence. Part 2: effects of larval nurture on adult characteristics at emergence. J. Med. Ent. 7(2):163-174; 235-241.

SMITH, C. N. 1970. Repellents for anopheline mosquitoes. Ent. Soc. Amer. Misc. Pub. 7(1):99-115. [Discussion pp. 116-117.]

— and COAUTHORS. 1970. L-lactic acid as a factor in the attraction of *Aedes aegypti* (Diptera:Culicidae) to human hosts. Ent. Soc. Amer. Ann. 63(3):760-770.

RESISTANCE AND SUSCEPTIBILITY

BANG, Y. H., JATANASEN, S. and TONN, R. J. 1970. Development and reversion of DDT resistance in *Aedes aegypti* population, Bangkok, Thailand. WHO/VBC/70.184, 9 pp.

SCHOOF, H. F. 1970. Physiological resistance and development of resistance in field populations. Ent. Soc. Amer. Misc. Pub. 7(1):45-52. [Anophelines. Discussion of paper on pp. 52-55.]

SELF, L. S. and TUN, M. M. 1970. Susceptibility of *Culex pipiens fatigans* to fenthion in Rangoon, Burma from 1963-1969. WHO/VBC/70.188, 6 pp.

INSECTICIDES AND CHEMICALS

HIRAKOSO, S., KERDPIBUL, V., PROWNEBON, S. and RONGSRIVAM, Y. 1970. Residual effectiveness of the insecticides in polluted waters collected from several sources containing various species of mosquito larvae and guppy. Southeast Asian J. Trop. Med. and Pub. Health 1(1):161-162.

PEST ARTICLES and NEWS SUMMARIES. 1970. Names of pesticides. Revised list—August 1969. Pest Articles and News Sum. 16(2):407-419.

SCHAFFER, C. H. and DUPRAS, E. F., JR. 1970. Factors affecting the stability of Dursban in polluted waters. J. Econ. Ent. 63(3):701-705.

SLOMINSKI, J. W., GOJMERAC, W. L. and BURKHOLDER, W. E. 1970. The reaction of styrofoam to insecticides. J. Econ. Ent. 63(3):998-999.

TOXICOLOGY

GUTHRIE, F. E. and DONALDSON, W. E. 1970. Distribution of DDT and dieldrin in the avian embryo. Toxicol. and Appl. Pharmacol. 16(2): 461-474.

HOFFMAN, D. G., WORTH, H. M., EMMERSON, J. L. and ANDERSON, R. C. 1970. Stimulation of hepatic drug-metabolizing enzymes by chlorophenothane (DDT); the relationship to liver enlargement and hepatotoxicity in the rat. Toxicol. and Appl. Pharmacol. 16(1):171-178.

KLUG, E. and SCHNEIDER, V. 1970. Fatal chloroquine poisoning. Arch. f. Toxikol. 26(2):176-178.

SMITH, S. I., WEBER, C. W. and REID, B. L. 1970. The effect of injection of chlorinated hydrocarbon pesticides on hatchability of eggs. Toxicol. and Appl. Pharmacol. 16(1):179-185.

BEHAVIOR, BIOLOGY AND ECOLOGY

BENNETT, G. F. 1970. The influence of the blood meal type on the fecundity of *Aedes (Stegomyia) aegypti* L. (Diptera:Culicidae). Canad. J. Zool. 48(3):539-543.

CARPENTER, S. J. 1970. Observations on the distribution and ecology of mountain *Aedes* mosquitoes in California. XIV. Mosquito problems

in the Bishop Creek recreational region. Calif. Vector Views 17(3):13-17.

DOW, R. P. and GERRISH, G. M. 1970. Day-to-day change in relative humidity and the activity of *Culex nigripalpus* (Diptera:Culicidae). Ent. Soc. Amer. Ann. 63(4):995-999.

FEDEROV, V. G. 1970. Phenology of blood-sucking mosquitoes (Diptera, Culicidae) of Leningrad. Communication 2. Phenology of mosquitoes of the tribe Culicinae. Med. Parazit. i Parazit. Bolezni 39(3):335-337. In Rus.

GUBLER, D. J. 1970. Comparison of reproductive potentials of *Aedes (Stegomyia) albopictus* Skuse and *Aedes (Stegomyia) polynesiensis* Marks. Mosquito News 30(2):201-209.

—. 1970. Competitive displacement of *Aedes (Stegomyia) polynesiensis* Marks by *Aedes (Stegomyia) albopictus* Skuse in laboratory populations. J. Med. Ent. 7(2):229-235.

HAJDUK, Z. and WISZNIOWSKA, T. 1968. New faunistic studies in the Jaskinia Niedzwiedzia cave in Kletno. Przeglad Zool. 12(2):200-201. In Pol., Engl. Summ. [*Culex pipiens* found.]

HUDSON, A. 1970. Factors affecting egg maturation and oviposition by autogenous *Aedes atropalpus* (Diptera:Culicidae). Canad. Ent. 102(8): 938-949.

KAMIMURA, K. and KATORI, K. 1969. Seasonal occurrence of *Culex tritaeniorhynchus summorosus* in Toyama Prefecture, with special references to the effect of aerial application of carbaryl dust on rice-fields and Japanese encephalitis. Jap. J. Sanit. Zool. 20(2):87-94. In Jap., Engl. Sum.

KEIRANS, J. E. and FAY, R. W. 1970. Some factors that influence egg hatch of *Aedes aegypti* (Diptera:Culicidae). Ent. Soc. Amer. Ann. 63(2): 359-364.

KHAN, A. A. and MAIBACH, H. I. 1970. A study of the probing response of *Aedes aegypti*. I. Effect of nutrition on probing. J. Econ. Ent. 63(3):974-976.

KRASFUR, E. S. and GRAHAM, C. L. 1970. Spiracular responses of *Aedes* mosquitoes to carbon dioxide and oxygen. Ent. Soc. Amer. Ann. 63(3):691-696.

O'MEARA, G. F. and KRASNICK, G. J. 1970. Dietary and genetic control of the expression of autogenous reproduction in *Aedes atropalpus* (Coq.) (Diptera:Culicidae). J. Med. Ent. 7(3): 328-334.

OMER, S. M. and CLOUDSLEY-THOMPSON, J. L. 1970. Survival of female *Anopheles gambiae* Giles through a 9-month dry season in Sudan. WHO Bul. 42(2):319-330.

PETERSEN, J. J. and CHAPMAN, H. C. 1970. Chemical characteristics of habitats producing larvae of *Aedes sollicitans*, *Aedes taeniorhynchus*, and *Psorophora confinis* in Louisiana. Mosquito News 30(2):156-161.

RAMACHANDRA RAO, T., PANICKER, K. N. and REUBEN, R. 1970. Tree-hole breeding of *Aedes aegypti* in southern India: a preliminary report. WHO Bul. 42(2):333-334.

RYAZANTSEVA, A. E. 1970. Breeding places of bloodsucking mosquitoes in the Donetsk oblast.

Parazitologiya 4(2):175-176. In Rus., Engl Sum. SCHUSTER, W. and MOHRIG, W. 1969. Ist *Culiseta glaphyoptera* (Schiner) 1864 wirklich eine Kaltwasserform? Deut. Ent. Z. 16(4/5): 395-397.

SERVICE, M. W. 1970. Some observations on the *Anopheles gambiae* complex near Kisumu, Kenya, WHO/VBC/70.189, WHO/Mal/70.713. 4 pp.

SHERMAN, E. J. and KRAMER, M. C. 1970. A report on the distribution and density of *Anopheles freeborni* larvae and pupae in the Central Valley from September through November. Calif. Vector Views 17(1):4-6.

SICART, M. and LARROUY, G. 1968. La faune culicidienne de la région Toulousaine cycle annuel de *Aedes (Ochlerotatus) rusticus* (Rossi 1790) dans un gîte de la plaine de Toulouse. Soc. Hist. Nat. de Toulouse. Soc. Hist. Nat. de Toulouse Bul. 104(1/2):96-100.

SPENCER, M. and CHRISTIAN, S. H. 1969. Cyclic ovariole changes in *Anopheles farauti* Laveran (Diptera: Culicidae) in Papua-New Guinea. Austral. Ent. Soc. J. 8(1):16-20.

STEELMAN, C. D. and COLMER, A. R. 1970. Some effects of organic wastes on aquatic insects in impounded habitats. Ent. Soc. Amer. Ann. 63(2):397-400. [*Culex pipiens quinquefasciatus* included.]

STEFFAN, W. A. 1970. Evidence of competitive displacement of *Toxorhynchites brevipalpis* Theobald by *T. amboinensis* Doleschall in Hawaii. Mosquito Systematics Newsletter 2(2):68.

SUBRA, R. 1970. Contribution to the biological and ecological study of *Culex pipiens fatigans* Wiedemann, 1828 (Diptera, Culicidae) in a West African Savannah urban area—adult resting places. WHO/VBC/70.201, 20 pp.

—. 1970. Contribution to the biological and ecological study of *Culex pipiens fatigans* Wiedemann, 1828 (Diptera, Culicidae) in an urban zone of the West African Savannah—dynamics of pre-adult populations. WHO/VBC/70.193, 13 pp. Illus.

SURTEES, G. 1970. Mosquito breeding in the Kuching area, Sarawak, with special reference to the epidemiology of dengue fever. J. Med. Ent. 7(2):273-276.

SWEENEY, A. W. 1968. Variations in density of *Anopheles farauti* Laveran in the Carteret Islands. Papua and New Guinea Med. J. 11(1): 11-18.

TEMPLIS, C. H. and GALINDO, P. 1970. Feeding habits of five species of *Deinocerites* mosquitoes collected in Panama. J. Med. Ent. 7(2):175-179.

TRPIŠ, M. and SHEMANCHUK, J. A. 1970. Effect of constant temperature on the larval development of *Aedes vexans* (Diptera: Culicidae). Canad. Ent. 102(8):1048-1051.

VINOGRADSKAYA, O. N. and OPINETS, A. 1970. On the fauna and biology of bloodsucking mosquitoes in the vicinity of Bely Yar Village of Tyumen region by observation of 1965. Communication I. Biology of water stages, Med. Parazit.

i Parazit. Bolezni 39(3):329-334. In Rus., Engl. Sum.

WADA, Y. 1969. Ecological studies of *Culex tritaeniorhynchus summorosus* (Diptera: Culicidae). II. Observations on the resting behavior before and after taking blood meal. Jap. J. Sanit. Zool. 20(2):81-86. In Jap., Engl. Sum.

WEIDHAAS, D. E., PATTERSON, R. S., LOFGREN, C. S. and FORD, H. R. 1970. Bionomics of a population of *Culex pipiens fatigans*. WHO/VBC/70.190, 7 pp.

WILKINSON, R. N., MILLER, T. A. and ESAH, S. 1970. Anthropophilic mosquitoes in central Thailand, with notes on *Anopheles balabacensis* Baisas and malaria. Mosquito News 30(2):146-148.

WRIGHT, R. E. and DEFOLIART, G. R. 1970. Associations of Wisconsin mosquitoes and woodland vertebrate hosts. Ent. Soc. Amer. Ann. 63(3):777-786.

YASUNO, M. and PANT, C. P. 1970. Seasonal change in biting and larval infestation rates of *Aedes aegypti* in Bangkok, Thailand, in 1969. WHO/VBC/70.200, 5 pp.

YASUNO, M. and TONN, R. J. 1970. Bionomics of *Toxorhynchites splendens* in the larval habitat of *Aedes aegypti* in Bangkok, Thailand. WHO/VBC/70.199, 8 pp.

See also Sheppard et al. in Arboviruses, Altman in *Malaria—Eradication*, Chow in *Malaria—Vectors* and De Kruijt in Books Sections.

GENETICS

AVIRACHAN, T. T., SEETHARAM, P. L. and CHOWDAIAH, B. N. 1969. Karyotype studies in oriental anophelines. I. Cytologia 34(3):418-422.

CHOWDAIAH, B. N., AVIRACHAN, T. T. and SEETHARAM, P. L. 1970. Chromosome studies of oriental anophelines. I. The salivary gland chromosomes of *Anopheles barbirostris*. Experientia 26(3):315-317.

ISHII, T. 1969. On the *Culex pipiens* group in Japan. Part II. Siphonal hair types from the 4-4 true bred population of autogenous *Culex pipiens* L. (Diptera, Culicidae). Jap. J. Sanit. Zool. 20(2):51-56. In Engl.

KILAMA, W. L. and CRAIG, G. B., JR. 1969. Monofactorial inheritance of susceptibility to *Plasmodium gallinaceum* in *Aedes aegypti*. Ann. Trop. Med. and Parasitol. 63(4):419-432.

MCDONALD, P. T. and RAI, K. S. 1970. *Aedes aegypti*: origin of a "new" chromosome from a double translocation heterozygote. Science 168 (3936):1229-1230.

RUTLEDGE, L. C., WARD, R. A. and BICKLEY, W. E. 1970. Experimental hybridization of geographic strains of *Anopheles stephensi* (Diptera: Culicidae). Ent. Soc. Amer. Ann. 63(4):1024-1030.

TADANO, T. 1969. The crossover between the sex factor and *w* (white eye) in *Culex pipiens molestus*. Jap. J. Sanit. Zool. 20(2):69-71. In Jap., Engl. Sum.

ANATOMY, MORPHOLOGY AND PHYSIOLOGY

ASLAMKHAN, M. 1970. A gynandromorph of *Culex fuscoccephalus* Theobald from East Pakistan. Mosquito News 30(2):271-273.

BENGE, M. K. 1970. A gynandromorph of *Culiseta inornata* (Williston). Mosquito News 30(2):268.

BUFFINGTON, J. D. 1969. Temperature acclimation of respiration in *Culex pipiens pipiens* (Diptera: Culicidae) and the influence of seasonal selection. Compar. Biochem. and Physiol. 30(5): 865-868.

BURZYNSKI, A. 1968. Effect of potassium concentration on uptake of Cesium 137 by *Aedes aegypti*. Manitoba Ent. 2:88.

HAGEDORN, H. H. and JUDSON, C. L. 1969. Site of synthesis and properties of *Aedes aegypti* yolk proteins. Amer. Zool. 9(4):1119.

HINTON, H. E. and SERVICE, W. W. 1969. The surface structure of aedine eggs as seen with the scanning electron microscope. Ann. Trop. Med. and Parasitol. 63(4):409-411.

JONES, J. C. and SHEFFIELD, H. G. 1970. The fine structure of the seminal bursa of *Aedes aegypti* (Linnaeus). Mosquito News 30(2):270-271.

ROMOSER, W. S., LANE, J. E., SKAVARIL, R. V. and VENARD, C. E. 1970. A quantitative and comparative study of the growth of the ventral diverticulum in *Aedes triseriatus* and *A. aegypti* (Diptera: Culicidae). Ent. Soc. Amer. Ann. 63(2):526-529.

TOWNSON, H. 1969. Esterase isozymes of individual *Aedes aegypti*. Ann. Trop. Med. and Parasitol. 63(4):413-418.

VAN HANDEL, E. and LEA, A. O. 1970. Control of glycogen and fat metabolism in the mosquito. General and Compar. Endocrinol. 14(2): 381-384. [*Aedes taeniorehynchus*.]

See also Bennett and Spencer in Behavior, Biology and Ecology Section, Ishii in Genetics Section, and Shimizu et al. in Light and Other Trap Studies Section.

TECHNIQUES

ALGER, N. E. and UNDEEN, A. H. 1970. The control of a microparasitid, *Nosema* sp., in an anopheline colony by an egg-rinsing technique. J. Invert. Path. 15(3):321-327.

ARNOLD, A. 1970. An oscillating insect barrier. Ann. Appl. Biol. 65(1):9-13. Illus.

BLAKESLEE, T. E. and COAUTHORS. 1970. A preliminary report on the laboratory colonization of the mosquito *Aedes dorsalis* (Meigen). Calif. Vector Views 17(1):1-2, 6.

CHAPMAN, H. C. 1970. Colonization of *Uranotaenia lowii* Theobald (Diptera: Culicidae). Mosquito News 30(2):262.

CONWAY, G. R. 1970. Computer simulation as an aid to developing strategies for anopheline control. Ent. Soc. Amer. Misc. Pub. 7(1):181-191. [Discussion pp. 191-193.]

- DAVIES, J. B. and MARTINEZ, R. 1970. Observations on the population dynamics, behavior and maintenance of a laboratory colony of *Culex (Melanoconion) portesi* Senevet and Abonnenc, 1941 (Diptera: Culicidae). *J. Med. Ent.* 7(2): 179-188.
- FLITTERS, N. E. 1970. Method of providing multiple photoperiodic regimens for studies of diapause in a bioclimatic cabinet. *J. Econ. Ent.* 63(3):999-1000.
- FRENCH, F. E. 1970. Maintaining mosquito colonies of *Aedes atropalpus* and *Anopheles stephensi* with less than 5 hours labor per month. *Canad. J. Zool.* 48(2):393-394. Illus.
- FRIESEN, J. A. 1970. Image projector for measuring biological materials. *U. S. Dept. Agr. ARS* 42-171, 5 pp.
- GERBERG, E. J. 1970. Manual for mosquito rearing and experimental techniques. *Amer. Mosquito Cont. Assoc. Bul.* No. 5, 109 pp.
- GILLIES, M. T. 1970. Assessment of control. Some problems in the measurement of anopheline populations. *Ent. Soc. Amer. Misc. Pub.* 7(1): 156-164. [Discussion pp. 164-167.]
- HARTBERG, W. K. and GERBERG, E. J. 1970. Laboratory colonization of *Aedes simpsoni* (Theobald) and *Eretmapodites quinquevittatus* Theobald. *WHO/VBC/70.210*, 4 pp.
- HAYES, D. K., SCHECHTER, M. S. and WASH, D. B. 1970. Disc electrophoresis as a micropreparative technique for hemolymph and soluble tissue proteins. *Ent. Soc. Amer. Ann.* 63(4): 1092-1095.
- KALE, H. W., II and JENNINGS, W. L. 1970. A disposable cage for studies of pathogens in small wild birds. *Amer. J. Trop. Med. and Hyg.* 19(4):733-734.
- LEWALLEN, L. L. 1970. A method of evaluating mosquito laricides utilizing the ultra-low-volume technique on small plots. *Mosquito News* 30(2):262-264.
- MIURA, T. 1970. A simple "scum-free" rearing technique for mosquito larvae. *WHO/VBC/70.202*, 2 pp.
- REED, D. E. 1970. Operational use of an improved mosquito larvae concentrator. *Mosquito News* 30(2):274.
- RIOUX, J. A., CROSET, H., SUQUET, P. and TOUR, S. 1968. Essais de marquage par le phosphore radioactif P_{32} pour l'estimation absolue des populations larvaires de culicides (Diptera-Culicidae). *Vie et Milieu Sér. C* 19(1-C):55-62. Engl. Sum.
- ROHE, D. L. 1970. Potential uses of color infrared photography in mosquito control. *Calif. Vector Views* 17(2):7-11.
- SIDIQUI, W. A., SCHNELL, J. V. and GEIMAN, Q. M. 1970. *In vitro* cultivation of *Plasmodium falciparum*. *Amer. J. Trop. Med. and Hyg.* 19(4):586-591.
- TANAKA, H., WADA, Y., MIURA, A. and SASA, M. 1969. Studies on the spectrophotometric method for estimating the time elapsed after blood sucking of mosquitoes. *Jap. J. Sanit. Zool.* 20(2): 72-75. In Jap., Engl. Sum.
- THOMPSON, A. H., BARNES, C. L. and MATHEWS, D. A. 1970. Injection method for drain channels. *Mosquito News* 30(2):115-118. [Mosquitos included.]
- ZAMAN, V. 1970. Immuno diagnosis of parasitic infection. *Southeast Asian J. Trop. Med. and Pub. Health* 1(1):62-67. [Includes filariasis and malaria.]
- ### TAXONOMY
- BELKIN, J. N. 1970. Corrected type localities for *Wyeomyia abia* D. & K., 1908 and *W. fratercula* D. & K., 1906. *Mosquito Systematics Newsstr.* 2(2):57-58.
- . 1970. *Culex (Melanoconion) aikenii* (A. & R., 1906) a nomen dubium; *ocossa* D. & K., 1919 and *panocossa* Dyar, 1923 both valid. *Mosquito Systematics Newsstr.* 2(2):59-60.
- BOREHAM, M. M. 1970. *Mansonia lebri*, a new mosquito from the Panama Canal Zone, with notes on its biology (Diptera: Culicidae). *J. Med. Ent.* 7(3):383-390. [n. sp.]
- COLUZZI, M. 1970. Sibling species in *Anopheles* and their importance in malariology. *Ent. Soc. Amer. Misc. Pub.* 7(1):63-72. [Discussion pp. 72-77.]
- DUBITSKY, A. M. and TUPITSIN, U. N. 1970. Description of the larva of *Aedes (O.) rempeli* Vockeroth, a species new in the fauna of the USSR. *Parazitologiya* 4(2):171-174. In Russ., Engl. Sum. [Fourth stage larva.]
- KNIGHT, K. L. and LAFFOON, J. L. 1970. A mosquito taxonomic glossary. II. Adult head (internal). *Mosquito Systematics Newsstr.* 2(2): 69-81.
- LEE, K. W. and LIEN, J. C. 1970. Pictorial keys to the mosquitoes of Korea. *WHO/VBC/70.196*, 7 pp.
- MATTINGLY, P. F. 1970. Mosquito eggs VII. Genus *Uranotaenia*. *Mosquito Systematics Newsstr.* 2(2):61-67.
- PAO, B. and KNIGHT, K. L. 1970. Morphology of the fourth stage larval mouthparts of *Aedes (Aedimorphus) vexans* (Diptera: Culicidae). *Georgia Ent. Soc. J.* 5(3):115-137.
- PEYTON, E. L. and KLEIN, J. M. 1970. Five new species of *Uranotaenia* from Southeast Asia (Diptera: Culicidae). *Ent. Soc. Wash. Proc.* 72(2):243-251. [*U. rambae*, *diraphati*, *koli*, *gouldi* and *sombooni* n. spp.]
- REID, J. A. 1970. Systematics of malaria vectors. Anopheline systematics and malaria control, with special reference to Southeast Asia. *Ent. Soc. Amer. Misc. Pub.* 7(1):56-62. [Discussion pp. 72-77.]
- REINERT, J. F. 1970. Contributions to the mosquito fauna of Southeast Asia. V. Genus *Aedes*, subgenus *Diceromyia* Theobald in Southeast Asia. *Amer. Ent. Inst. Contrib.* 5(4):1-43. [*Aedes scanloni* n. sp.]
- SERVICE, M. W. 1970. A new *Anopheles* (Dipt., Culicidae) from Nigeria and a note on *A. pretoriensis* (Theobald). *Bul. Ent. Res.* 59(4): 647-649. [*A. deemangi* n. sp.]

- SICART, M. and LARROUY, G. 1968. La faune culicidienne de la région Toulousaine genitalia ♀ des *Aedes* régionaux. Soc. Hist. Nat. de Toulouse Bul. 104(1/2):104-109.
- SIRIVANAKARN, S. 1970. Current study of genus *Culex* in Southeast Asia (Diptera: Culicidae). Mosquito Systematics Newslet. 2(2):48-52.
- STEFFAN, W. A. 1968. Hawaiian *Toxorhynchites* (Diptera:Culicidae). Hawaiian Ent. Soc. Proc. 20(1):141-155.
- . 1970. The mosquito fauna of the Papuan Subregion. Mosquito Systematics Newslet. 2(2):53-56.
- STONE, A. 1970. A synoptic catalog of the mosquitoes of the world, supplement IV (Diptera: Culicidae). Ent. Soc. Wash. Proc. 72(2):137-171.
- TYSON, W. H. 1970. Notes on African *Aedes*, subgenus *Mucidus* (Diptera: Culicidae). Ent. Soc. Southern Afr. J. 33(1):81-88.
- See also Service in Behavior, Biology and Ecology Section and Sicart et al. in Distribution Section.
- ### DISTRIBUTION
- CARLI, A. 1967. Reperti di *Aedes mariae* nelle pozze di scogliere dei dintorni di Genova e a S. Maria di Leuca (Diptera, Culicidae). Natura (Milano) 58(3):208-220. Engl. Sum.
- HIGHTON, R. B. and VAN SOMEREN, E. C. C. 1970. The transportation of mosquitoes between international airports. WHO Bul. 42(2):334-335.
- LACHMAJER, J., LESZCZYŃSKI, T. and SKIERSKA, B. 1970. Mosquitoes in the western territory of Poland. Inst. Marine Med. Gdańsk Bul. 21 (1/2): 67-82. In Pol., Engl. Sum.
- LUNT, S. R. 1969. The occurrence of *Aedes hendersoni* Cockerell in Nebraska (Diptera: Culicidae). Nebraska Acad. Sci. Proc. 79:9-10.
- REINERT, J. F. 1970. The zoogeography of *Aedes (Diceromyia)* Theobald (Diptera: Culicidae). Ent. Soc. Southern Afr. J. 33(1):129-141.
- RIOUX, J. A., DEDET, J. P. and BEN OSMAN, F. 1968. Présence de *Culiseta subochrea* (Edwards, 1921) et *Culex theileri* Theobald, 1903 dans l'extrême sud de la Tunisie. Inst. Pasteur Tunis Arch. 45(4):419-421.
- SICART, M. and LARROUY, G. 1968. La faune culicidienne de la région Toulousaine. Présence d'*Aedes (Ochlerotatus) punctor* (Kirby 1837): dans la plaine de Toulouse. Soc. Hist. Nat. de Toulouse Bul. 104(1/2):101-103.
- See also Carpenter in Behavior, Biology and Ecology Section and Dubitsky in Taxonomy Section.
- ### ARBOVIRUSES
- BOSE, H. R., CARL, G. Z. and SAGIK, B. P. 1970. Separation of Sindbis virus plaque-type variants by calcium phosphate chromatography. Arch f. d. Gesamte Virusforsch. 29(1):83-89.
- BUCKLEY, S. M. and CASALS, J. 1970. Lassa fever, a new virus disease of man from West Africa. III. Isolation and characterization of the virus. Amer. J. Trop. Med. and Hyg. 19(4): 680-691. [Virus did not infect *Aedes aegypti* or *A. albopictus* continuous cell lines.]
- BUESCHER, E. L. and COAUTHORS. 1970. Cache Valley virus in the Del Mar Va Peninsula. I. Virologic and serologic evidence of infection. Amer. J. Trop. Med. and Hyg. 19(3):493-502.
- BURRELL, C. J., MARTIN, E. M. and COOPER, P. D. 1970. Posttranslational cleavage of virus polypeptides in arbovirus-infected cells. J. General Virol. 62(2):319-323.
- CARTWRIGHT, K. L. and BURKE, D. C. 1970. Virus nucleic acids formed in chick embryo cells infected with Semliki Forest virus. J. General Virol. 6(2):231-248.
- CHIPPAUX, A., RAGEAU, J. and MOUCHET, J. 1970. Hibernation de l'arbovirus Tahyna chez *Culex modestus* Fic. en France. Comptes Rendus Sect. D 270(12):1648-1650.
- CHIPPAUX-HYPOLITE, C. and CHIPPAUX, A. 1969. Contribution à l'étude d'un réservoir de virus animal dans le cycle de certains arbovirus en Centrafrique. I. Etude immunologique chez divers animaux domestiques et sauvages. Soc. de Path. Exot. Bul. 62(6):1034-1045. Engl. Sum.
- CHUNG, Y. S. 1970. Viræmia and antibody response in chickens infected with arboviruses. J. Compar. Path. 80(2):311-314.
- CRANE, G. T., ELBEL, R. E., KLIMSTRA, D. E. and SMART, K. L. 1970. Arbovirus isolations from mosquitoes collected in central Utah in 1967. Amer. J. Trop. Med. and Hyg. 19(3): 540-543.
- DE VLEESSCHAUWER, L. and PATTYN, S. R. 1970. The enhancing effect of diethylaminomethyl (DEAE)-dextran on the infectivity of some arboviruses for *Aedes aegypti*. Antonie van Leeuwenhoek J. Microbiol. and Serol. 36(1):188.
- FISCHER, D. B. and HALSTEAD, S. B. 1970. Observations related to pathogenesis of dengue hemorrhagic fever. V. Examination of age specific sequential infection rates using a mathematical model. Yale J. Biol. and Med. 42(5):329-349.
- GORMAN, B. 1970. Lipid inhibitors of arbovirus haemagglutination. J. General Virol. 6(2): 305-313.
- GRIMLEY, P. M. and FRIEDMAN, R. M. 1970. Development of Semliki Forest virus in mouse brain: an electron microscopic study. Expt. and Molecular Path. 12(1):1-13.
- HAHON, N. and HANKINS, W. A. 1970. Assay of chikungunya virus in cell monolayers by immunofluorescence. Appl. Microbiol. 19(2):224-231.
- HALL, R. R., MCKIEL, J. A., McLINTOCK, J. and BURTON, A. N. 1969. Arboviruses from Saskatchewan mosquitoes—isolation of a member of the Flanders-Hart Park group and of a strain as yet unidentified. Canad. J. Pub. Health 60(12): 486-488.

- HALSTEAD, S. B. 1970. Observations related to pathogenesis of dengue hemorrhagic fever. VI. Hypotheses and discussion. *Yale J. Biol.* and *Med.* 42(5):350-362.
- and COAUTHORS. 1970. Observations related to pathogenesis of dengue hemorrhagic fever. I. Experience with classification of dengue viruses. *Yale J. Biol.* and *Med.* 42(5):261-275.
- HALSTEAD, S. B., NIMMANITYA, S. and COHEN, S. N. 1970. Observations related to pathogenesis of dengue hemorrhagic fever. IV. Relation of disease severity to antibody response and virus recovered. *Yale J. Biol.* and *Med.* 42(5):311-328.
- HALSTEAD, S. B. and SIMASTHEN, P. 1970. Observations related to the pathogenesis of dengue hemorrhagic fever. II. Antigenic and biologic properties of dengue viruses and their association with disease response in the host. *Yale J. Biol.* and *Med.* 42(5):276-293.
- HARDY, J. L. and COAUTHORS. 1970. Ecologic studies on Buttonwillow virus in Kern County, California, 1961-1968. *Amer. J. Trop. Med. and Hyg.* 19(3):552-563.
- JOUBERT, L., CHIPPAUX, A., MOUCHET, J. and OUDAR, J. 1969. Entretien hivernovernal du virus myxomateux dans les terriers. Myxomatose d'inoculation par la puce du lapin et myxomatose de fousissement. *Acad. Vet. France Bul.* 42(2): 93-101.
- JUPP, P. G. and MCINTOSH, B. M. 1970. Quantitative experiments on the vector capability of *Culex* (*Culex*) *univittatus* Theobald with West Nile and Sindbis viruses. *J. Med. Ent.* 7(3):371-373.
- and —. 1970. Quantitative experiments on the vector capability of *Culex* (*Culex*) *pipiens fatigans* Wiedemann with West Nile and Sindbis viruses. *J. Med. Ent.* 7(3):353-356.
- KITSAK, V. Ya. 1970. Changes in the heredity properties of Sindbis virus in long-term cultivation under conditions of lowering temperature. *Vopros Virusologii* 14(2):177-181. In Rus., Engl. Sum.
- LLEWELLYN, C. H., SPIELMAN, A. and FROTHINGHAM, T. E. 1970. Survival of arboviruses in *Aedes albopictus*, a peridomestic Bahaman mosquito. *Soc. Expt. Biol. and Med. Proc.* 133(2): 551-554.
- MURPHY, F. A. and COAUTHORS. 1970. Characterization of Nodamura virus, an arthropod transmissible Picornavirus. *Virology* 40(4):1008-1021.
- MYERS, R. M. and COAUTHORS. 1969. Isolation of dengue type-2 from a child with encephalitis: cause or coincidence. *Indian J. Med. Res.* 57(11): 2030-2035.
- MYERS, R. M., VARKEY, M. J., REUBEN, R. and JESUDASS, E. S. 1970. Dengue outbreak in Vellore, southern India, in 1968, with isolation of four dengue types from man and mosquitoes. *Indian J. Med. Res.* 58(1):24-30.
- NABLI, B., CHIPPAUX-HYPOLITE, C., CHIPPAUX,
- A. and TAMALET, J. 1970. Enquête sérologique en Tunisie sur les arbovirus. *WHO Bul.* 42(2): 297-303.
- NISALAK, A. and COAUTHORS. 1970. Observations related to pathogenesis of dengue hemorrhagic fever. III. Virologic studies of fatal disease. *Yale J. Biol.* and *Med.* 42(5):293-310.
- OELLERMANN, R. A., ELS, H. J. and ERASMUS, B. J. 1970. Characterization of African horse-sickness virus. *Arch. f. die Gesamte Virusforsch.* 29(2/3):163-174.
- OHDER, H., LUND, L. J. and WHITELAND, A. P. 1970. Observations on the growth and development of bluetongue, Nairobi sheep disease, and Rift Valley fever viruses by fluorescent antibody technique and titration in a tissue culture system. *Arch. f. die Gesamte Virusforsch.* 29(2/3):127-138.
- OZAWA, Y. and DARDIRI, A. H. 1970. Transmission of African horse-sickness in mice. *Arch. f. die Gesamte Virusforsch.* 29(4):331-336.
- REEVES, W. C. and COAUTHORS. 1970. Buttonwillow virus, a new arbovirus isolated from mammals and *Culicoides* midges in Kern County, California. *Amer. J. Trop. Med. and Hyg.* 19(3): 544-551. [Experimental infection in *Culex*, *Aedes* and *Anopheles*.]
- SCHEELE, C. M. and PFEFFERKORN, E. R. 1970. Virus-specific proteins synthesized in cells infected with RNA⁺ temperature-sensitive mutants of Sindbis virus. *J. Virology* 5(3):329-337.
- SHEPPARD, P. M., MACDONALD, W. W., TONN, R. J. and GRAB, B. 1969. The dynamics of an adult population of *Aedes aegypti* in relation to dengue haemorrhagic fever in Bangkok. *J. Animal Ecol.* 38(3):661-702.
- SIMONS, K. and KÄÄRIÄINEN, L. 1970. Characterization of the Semliki Forest virus core and envelope protein. *Biochem. and Biophys. Res. Communicat.* 38(5):981-988.
- SMITH, C. A. 1969. Protecting the United States against foreign animal diseases. *Amer. Vet. Med. Assoc. J.* 155(12):2212-2216. [Includes African horsesickness.]
- SMITH, T. J. and COAUTHORS. 1970. Physical and biological properties of dengue-2 virus and associated antigens. *J. Virology* 5(4):524-532.
- STM, T. B. 1970. Dengue virus plaque development in simian cell systems. I. Factors influencing virus absorption and variables in the agar overlay medium. II. Agar variables and effect of chemical additives. *Appl. Microbiol.* 19(5):751-755; 757-762.
- TONEW, E. and TONEW, M. 1969. The effect of cycloheximide upon sheep abortion virus, Sindbis virus and other viruses in screening experiments. *Zentbl. Bakteriol. Parasit. Infektionskrank. u. Hyg. Abt. I.* 211(4):437-444. In Ger., Engl. Sum.
- VENTURA, A. K. and HEWITT, C. M. 1970. Recovery of dengue-2 and dengue-3 viruses from man in Jamaica. *Amer. J. Trop. Med. and Hyg.* 19(4):712-715.

- WOOD, K. R., GOULD E. A. and SMITH, H. 1970. Purification of Semliki Forest virus using disulphide-linked immunosorbents derived from rabbit or fowl antibody. *J. General Virol.* 6(2):257-265.
- YUILL, T. M. and BUESCHER, E. L. 1970. Cache Valley virus in the Del Mar Va Peninsula. II. Identity of virus recovered from mosquitoes. *Amer. J. Trop. Med. and Hyg.* 19(3):503-505.
- YUILL, T. M. and COAUTHORS. 1970. Cache Valley virus in the Del Mar Va Peninsula. III. Serologic evidence for natural infection of dairy cattle. *Amer. J. Trop. Med. and Hyg.* 19(3):506-512.
- YUILL, T. M. and THOMPSON, P. H. 1970. Cache Valley virus in the Del Mar Va Peninsula. IV. Biological transmission of the virus by *Aedes sollicitans* and *Aedes taeniorhynchus*. *Amer. J. Trop. Med. and Hyg.* 19(3):513-519.
- See also Surtees in Behavior, Biology and Ecology Section.
- ### ENCEPHALITIS
- BOND, J. O. and LEWIS, A. L. 1970. Persistence of antibodies to St. Louis encephalitis virus in survivors of Florida epidemics. *Amer. J. Epidemiol.* 91(6):593-600.
- COOK, I., ALLAN, B. C., HORNSFALL, W. R. and FLANAGAN, J. E. 1970. A fatal case of Murray Valley encephalitis. *Med. J. Australia* 57(22):1110-1113.
- DETELS, R. and COAUTHORS. 1970. Ecology of Japanese encephalitis virus on Taiwan in 1968. *Amer. J. Trop. Med. and Hyg.* 19(4):716-723.
- GRAYSON, M. A. and GALINDO, P. 1969. Ecology of Venezuelan equine encephalitis virus in Panama. *Amer. Vet. Med. Assoc. J.* 155(12):2141-2145.
- HAHON, N. 1970. Neutralization anti-IgG test for antisera to Venezuelan equine encephalomyelitis. *J. General Virol.* 6(2):285-291.
- . 1970. Neutralization of residual infectivity of Venezuelan equine encephalomyelitis virus by antigamma globulin. *J. General Virol.* 6(3):361-372.
- HANSON, R. P. and HANSON, M. G. 1970. The effect of land use practices on the vector of California encephalitis (LaCrosse) in north central United States. *Mosquito News* 30(2):215-221. [*Aedes triseriatus*.]
- HILL, H. R. and COAUTHORS. 1970. The serological diagnosis of arbovirus infections in newborns and infants. *J. Lab. and Clin. Med.* 75(3):457-462.
- LIKOSKY, W. H. and McGOWAN, J. E., JR. 1970. Encephalitis. United States. 1966-1968. *J. Infect. Dis.* 121(4):457-458.
- LORD, R. D. and CALISHER, C. H. 1970. Further evidence of southward transport of arboviruses by migratory birds. *Amer. J. Epidemiol.* 92(1):73-78.
- MCLEAN, D. M. 1970. California encephalitis virus isolation from British Columbia mosquitoes. *Mosquito News* 30(2):144-145.
- MONATH, T. P. C. and COAUTHORS. 1970. Studies on California encephalitis in Minnesota. *Amer. J. Epidemiol.* 92(1):40-50.
- MURPHY, F. A., HARRISON, A. K. and COLLIN, W. K. 1970. The role of extraneal arbovirus infection in the pathogenesis of encephalitis. An electron microscopic study of Semliki Forest virus infection in mice. *Lab. Investig.* 22(4):318-328.
- NATHANSON, N. and COLE, G. A. 1970. Fatal Japanese encephalitis virus infection in immunosuppressed spider monkeys. *Clin. and Expt. Immunol.* 61(1):161-166.
- REITMAN, M., TRIBBLE, H. R., JR. and GREEN, L. 1970. Gamma-irradiated Venezuelan equine encephalitis vaccines. *Appl. Microbiol.* 19(5):763-767.
- SCHERER, W. F., DICKERMAN, R. W. and ORDOÑEZ, J. V. 1970. Discovery and geographic distribution of Venezuelan encephalitis virus in Guatemala, Honduras, and British Honduras during 1965-68, and its possible movement to Central America and Mexico. *Amer. J. Trop. Med. and Hyg.* 19(4):703-711.
- SCHERER, W. F. and PANCAKE, B. A. 1970. Cross-protection among viruses of the Venezuelan equine encephalitis complex in hamsters. *Amer. J. Epidemiol.* 91(2):225-229.
- VENTURA, A. K. and SCHERER, W. F. 1970. Different effects of deoxycholate, ether, chloroform, hydrocarbons, and alcohols on Venezuelan encephalitis viral infection, haemagglutination, and complement-fixation. *Soc. Expt. Biol. and Med. Proc.* 133(2):711-717.
- YONASHIRO, T. 1970. Effect of Tween 80 on hemagglutination activity of Japanese encephalitis virus. *Trop. Med. (Nagasaki)* 12(1):22-31. In Jap. Engl. Sum.
- ZARRILLI, L. W. and CALHOUN, M. L. 1970. Cellular response to equine encephalomyelitis vaccine in skin window of horses. *Amer. J. Vet. Res.* 31(1):97-102.
- See also Kamimura et al. in Behavior, Biology and Ecology Section.
- ### FILARIASIS
- BARCLAY, R. 1969. Filariasis in Sabah, East Malaysia. *Ann. Trop. Med. and Parasitol.* 63(4):473-488.
- COLLOMB, H. and COAUTHORS. 1969. Syndrome d'hypertension intra-crânienne au cours d'une filariose à *Wuchereria bancrofti* (Cobbold, 1877). Réaction électroencéphalographique au treatment. *Soc. de Path. Exot. Bul.* 62(5):907-919. Engl. Sum.
- FAIN, A., WÉRY, M. and TILKIN, J. 1969. Recherches sur les filarioSES humaines dans la région de la Cuvette Centrale (République Démocratique du Congo). *Soc. Belges Med. Trop. Ann.* 49(6):629-648. [Includes *Wuchereria bancrofti*.]

FOWLER, J. L., WARNE, R. J., FURUSHO, Y. and SUGIYAMA, H. 1970. Testing fenthion, dichlorvos, and diethylcarbamazine for prophylactic effects against the developing stages of *Dirofilaria immitis*. Amer. J. Vet. Res. 31(5):903-906.

GRUDZINSKAS, J. G. and BLACKBURN, C. R. B. 1969. *Dirofilaria immitis*: failure to demonstrate in dogs or mosquitoes in the Western Highlands. Papua and New Guinea Med. J. 12(1):11-12.

HARINASUTA, C. and COAUTHORS. 1970. Studies on Malayan filariasis in Thailand. Southeast Asian J. Trop. Med. and Pub. Health 1(1):29-39.

— and —. 1970. Studies on the nocturnally sub-periodic strain of *Wuchereria bancrofti* from West Thailand. Southeast Asian J. Trop. Med. and Pub. Health 1(1):152-154.

HARINASUTA, C., SUCHARIT, S. and GUPTAVANIJ, P. 1970. Sub-periodic *Brugia malayi* in South Thailand. Southeast Asian J. Trop. Med. and Pub. Health 1(1):162-163.

HEIM, B. and CALLOT, J. 1969. La filariose à *Wuchereria bancrofti* à La Réunion. Soc. de Path. Exot. Bul. 62(4):722-724.

HITCHCOCK, J. C., JR. and LEWIS, W. P. 1970. A 60 c.m.m. pipette for filariasis surveys. Roy Soc. Trop. Med. and Hyg. Trans. 64(2):311.

JAFFE, J. J. and DOREMUS, H. M. 1970. Metabolic patterns of *Dirofilaria immitis* microfilariae in vitro. J. Parasitol. 56(2):254-260.

JUMINER, B., CAMERLYNCK, P. and DIALLO, S. 1968. Evolution complète des stades larvaires de *Wuchereria bancrofti* (Cobbold, 1877) chez une souche dakaroise de *Culex (C.) pipiens fatigans* Wiedemann, 1828. Inst. Pasteur Tunis Arch. 45(4):441-447.

MAHONEY, L. E., JR. and AIU, P. 1970. Filariasis in Samoan immigrants to the United States. Amer. J. Trop. Med. and Hyg. 19(4):629-631.

PACHEO, G. and TULLOCK, G. S. 1970. Microfilariae of *Dirofilaria striata* in a dog. J. Parasitol. 56(2):248. [Similarity to *D. immitis* discussed.]

PATTON, C. S. and GARNER, F. M. 1970. Cerebral infarction caused by heartworms (*Dirofilaria immitis*) in a dog. Amer. Vet. Med. Assoc. J. 156(5):600-605.

RAMACHANDRAN, C. P. 1970. Attempts to immunise domestic cats with X-irradiated infective larvae of sub-periodic *Brugia malayi*. I. Parasitological aspects. Southeast Asian J. Trop. Med. and Pub. Health 1(1):78-92.

— and SIVANANDAM, S. 1970. Experimental studies on the transmission of *Wuchereria bancrofti* to the domestic cat. Southeast Asian J. Trop. Med. and Pub. Health 1(1):150-152.

SATO, K. and SAWADA, T. 1969. Studies on skin test antigen FST for immunodiagnosis of filariasis. II. The fractionation of the main proteins contained in fractions, FST 1, 2, 3 and 5 by disc electrophoresis. Jap. J. Expt. Med. 39(5):435-440.

SAWADA, T. and COAUTHORS. 1968. Intradermal skin test with antigen FST (FSCDI) on individuals in endemic area. Jap. J. Expt. Med. 38(6):405-414. [*Dirofilaria immitis*.]

SAWADA, T., SATO, K. and SATO, S. 1969. Studies on skin test antigen FST for immunodiagnosis of filariasis. I. Electrophoretic analysis and fractionation of antigen FST. Jap. J. Expt. Med. 39(5):427-433.

SUZUKI, Y., SUU, S. and SATOH, H. 1970. Cerebrospinal lesions resulting from invasion of canine heartworm larvae. Jap. J. Vet. Sci. 32(1):11-16. In Jap., Engl. Sum.

TASHJIAN, R. J. and COAUTHORS. 1970. Angiography in canine heartworm disease. Amer. J. Vet. Res. 31(3):415-436.

THOMAS, V. and RAMACHANDRAN, C. P. 1970. Selection of *Culex pipiens fatigans* for vector ability to the rural strain of *Wuchereria bancrofti*—a preliminary report. Med. J. Malaya 24(3):196-199.

TULLOCH, G. S. and COAUTHORS. 1970. Prepatent clinical, pathologic, and serologic changes in dogs infected with *Dirofilaria immitis* and treated with diethylcarbamazine. Amer. J. Vet. Res. 31(3):437-448.

WYLIE, J. P. 1970. Detection of microfilariae by a filter technique. Amer. Vet. Med. Assoc. J. 156(10):1403-1405. [*Dirofilaria immitis*.]

YARNS, D. A., CARMICHAEL, J. A. and TASHJIAN, R. J. 1970. Cardiopulmonary changes in heartworm-infected dogs after a 32-month interval. Res. in Vet. Sci. 11(2):112-116.

ZAMAN, V. and CHELLAPPAN, W. T. 1970. Double infection in a mosquito *Armigeres subalbatus* (Coquillett) (*A. obturbans* auct.) with two different species of *Filaria*. Experientia 26(3):323.

— and —. 1970. Studies on the site of development of *Breinlia sergenti* in *Aedes aegypti*. J. Med. Ent. 7(3):381-383.

— and —. 1969. Studies on the site of development of slow loris (*Nycticebus coucang*) filaria in mosquitoes. Acta Trop. 26(4):364-369.

ZYDECK, F. A., CHODKOWSKI, I. and BENNETT, R. R. 1970. Incidence of microfilariasis in dogs in Detroit, Michigan. Amer. Vet. Med. Assoc. J. 156(7):890-891.

MALARIA

AMBROISE-THOMAS, P., ORFILA, J. and KIEN TRUONG, T. 1969. Demonstration by means of fluorescent antibody of serum antibodies in white rats inoculated with *Plasmodium berghei*. Soc. de Path. Exot. Bul. 62(5):856-867. In Fr., Engl. Sum.

APPLEGATE, J. E. 1970. Population changes in latent avian malaria infections associated with season and corticosterone treatment. J. Parasitol. 56(3):439-443.

BLACK, R. H. 1969. Malaria control. Papua and New Guinea Med. J. 12(4):142-143.

BOEHM, T. M. and M. J. 1970. The effect of experimental malaria on intracellular concentrations of sodium and potassium in muscle and liver. Soc. Expt. Biol. and Med. Proc. 133(2):370-375.

- BRUCE-CHWATT, L. J. 1970. Imported malaria—a growing world problem. *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(2):201-209.
- CORWIN, R. M., COX, H. W., LUDFORD, C. G. and MCNETT, S. L. 1970. Relapse mechanisms in malaria: emergence of variant strains of *Plasmodium lophurae* from serum antigen-immunized ducks. *J. Parasitol.* 56(3):431-438.
- COX, F. E. G. 1970. The specificity of immunoglobulin G and immunoglobulin M in the fluorescent antibody test for malaria parasites in mice. WHO/Mal/70.719, 7 pp.
- CRADDOCK, W. L. 1970. United States medical programs in South Vietnam. *Military Med.* 135(3):186-191. [Includes malaria.]
- D'ANTONIO, L. E. and COAUTHORS. 1970. Malaria resistance: artificial induction with a partially purified plasmoidal fraction. *Science* 168(3935):1117-1118.
- DOBRYNINA, L. I. 1970. History of malaria station and control of malaria in Novokuznetsk. *Med. Parazit. i Parazit. Bolezni* 39(2):240-241. In Rus.
- DODIN, A., DAMAS, A. F. and ANDRIAMANDRA, A. 1969. Immunodépresseur et paludisme. A propos de deux cas de leucémie traités au chloramino-phène ayant révélé un paludisme latent. *Soc. de Path. Exot. Bul.* 62(5):867-871. Engl. Sum.
- DOVER, A. S. and WESTERN, K. A. 1970. Fatalities due to malaria in the United States, 1966-1969. *J. Infect. Dis.* 121(5):573-575.
- FIELD, J. W. 1970. Summary of recent abstracts. III. Malaria. *Trop. Dis. Bul.* 67(4):381-397.
- FISHER, G. U. and SCHULTZ, M. G. 1969. Unusual host-parasite relationship in blood-donors responsible for transfusion-induced *falciparum* malaria. *Lancet* 7623:716-718.
- GELFAND, M. 1970. Big spleen disease a probable case from Rhodesia. *J. Trop. Med. and Hyg. (London)* 73(3):71-73.
- GILLES, H. M. 1970. Summary of recent abstracts. III. Malaria. *Trop. Dis. Bul.* 67(3):253-260.
- GREENWOOD, B. M., HERRICK, E. M. and VOLLMER, A. 1970. Suppression of autoimmune disease in NZB and (NZB x NZW) F₁ hybrid mice by infection with malaria. *Nature (London)* 226(5242):266-267.
- HOLWAY, R. T. 1970. Vector densities and malaria rates in the Republic of Vietnam. *Mosquito News* 30(2):131-144.
- LELIJVELD, J. and KORTMANN, H. 1970. The eosin colour test of Dill and Glazko: a simple field test to detect chloroquine in urine. *WHO Bul.* 42(3):477-479.
- LEWIS, J. 1970. Iatrogenic malaria. *N. Zeal. Med. J.* 71(453):88-89.
- MATHEWS, H. M., FISHER, G. U. and KAGAN, I. C. 1970. Persistence of malaria antibody in Tobago, West Indies, following eradication, as measured by the indirect hemagglutination test. *Amer. J. Trop. Med. and Hyg.* 19(4):581-585.
- MIGASENA, P. and MAEGRAITH, B. G. 1969. Intestinal absorption in malaria. I. the absorption of an amino acid (AIB-L-¹⁴C) across the gut membrane in normal and in *Plasmodium knowlesi*-infected monkeys. *Ann. Trop. Med. and Parasitol.* 63(4):439-448.
- PANDIT, C. G. 1970. Communicable diseases in twentieth-century India. *Amer. J. Trop. Med. and Hyg.* 19(3):375-382. [Includes malaria.]
- RASHINA, M. G. and SARIKYAN, S. YA. 1970. Development of a network of special institutions for the control of malaria and other parasitic diseases in the USSR. *Med. Parazit. i Parazit. Bolezni* 39(2):132-138. In Rus.
- REDLIJA, A. 1968. Malarijas odu izplate un ekologija. *Latvijas PSR. Latvijas Entomologs (Riga)* 12:39-48. Ger. and Rus. Sum.
- SANDOSHAM, A. A. 1970. Malaria in rural Malaya. *Med. J. Malaya* 24(3):221-226.
- SHUTE, P. G. 1970. Malaria. *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(2):210-216.
- SMITHURST, B. A. 1970. A malaria survey on Bougainville Island (Kieta subdistrict) January-February, 1967. *Southeast Asian J. Trop. Med. and Pub. Health* 1(1):117-122.
- SODEMAN, T. M., JUMPER, J. R., CONTACOS, P. G. and SMITH, C. R. 1970. A technique for splenectomy of non-human primates. *J. Trop. Med. and Hyg. (London)* 73(2):33-35.
- VOLLER, A. and COAUTHORS. 1970. Hepatic sinusoidal lymphocytosis and malaria in rhesus monkeys. *J. Trop. Med. and Hyg. (London)* 73(3):54-58.
- WARREN, M., CHEONG, W. H., FREDERICKS, H. K. and COATNEY, G. R. 1970. Cycles of jungle malaria in West Malaysia. *Amer. J. Trop. Med. and Hyg.* 19(3):383-393.
- WINKLER, W. P. 1970. The successful control of malaria in the 173d Airborne Brigade. *Military Med.* 135(2):107-111.
- WISEMAN, R. A. 1970. Relapse after standard treatment of malaria. *Brit. Med. J.* 5705:365.
- YOUNG, M. D. 1970. Natural and induced malarias in Western Hemisphere monkeys. *Lab Animal Care* 20 pt. 2(2):361-367.
- Malaria—Cerebral*
- KHAN, M. A., WILLIAMS, E. R. and SKONE, J. F. 1970. Cerebral malaria in the Port of Bristol. *Postgrad. Med. J.* 46(532):116-118.
- Malaria—Eradication*
- ALTMAN, R. M. 1970. Introduction. [To conference on anopheline biology and malaria eradication.] *Ent. Soc. Amer. Misc. Pub.* 7(1):5-6.
- BLACK, R. H. 1969. Duration of attack phase of malaria eradication. Criteria for entry into consolidation phase. *Papua and New Guinea Med. J.* 12(1):29-32.
- BRUCE-CHWATT, L. J. 1970. Global review of malaria control and eradication by attack on the vector. *Ent. Soc. Amer. Misc. Pub.* 7(1):7-23. [Discussion pp. 24-27.]

- GARRETT-JONES, C. 1970. Problems of epidemiological entomology as applied to malariology. Ent. Soc. Amer. Misc. Pub. 7(1):168-178. [Discussion pp. 178-180.]
- GUY, Y. 1969. La conception de l'éradication du paludisme par étapes. Soc. de Path. Exot. Bul. 62(6):1063-1072. Engl. Sum.
- HAMON, J., MOUCHET, J., BRENGUES, J. and CHAUVENT, G. 1970. Problems facing anopheline vector control. Vector ecology and behavior before, during, and after application of control measures. Ent. Soc. Amer. Misc. Pub. 7(1):28-41. [Discussion pp. 41-44.]
- PAN AMERICAN SANITARY BUREAU. 1970. Estado de la erradicación de la malaria en las Américas. Bol. Ofic. Sanit. Panamer. 68(1):74-81. [See also map opposite page 1.]
- SAINTE YVES, I. F. M. 1968. The principles of malaria eradication. Papua and New Guinea Med. J. 11(3):99-100.
- WARD, R. A. and SCANLON, J. E. 1970. Recommendations of the Conference on Anopheline Biology and Malaria Eradication. Ent. Soc. Amer. Misc. Pub. 7(1):194-196.
- See also Barlow in Books Section.
- Malaria—Immunology**
- COX, F. E. G. 1970. Protective immunity between malaria parasites and piroplasms in mice. WHO/MAL/70.714, 19 pp.
- PHILLIPS, R. S. 1970. *Plasmodium berghei*: passive transfer of immunity by antisera and cells. Expt. Parasitol. 27(3):479-495.
- VOLLER, A. and RICHARDS, W. H. G. 1970. Immunity to *Plasmodium falciparum* in owl monkeys (*Aotus trivirgatus*). Z. f. Tropenmed. u. Parasitol. 21(2):159-166.
- Malaria—Plasmodia**
- AYALA, S. C. 1970. Lizard malaria in California; description of a strain of *Plasmodium mexicanum*, and biogeography of lizard malaria in western North America. J. Parasitol. 56(3):417-425.
- BAFORT, J. 1969. Etude du cycle biologique du *Plasmodium v. vinckei* Rodhain 1952. Soc. Belges Med. Trop. Ann. 49(6):533-628.
- BENNETT, G. and LAIRD, M. 1970. The work of the World Health Organization International Reference Centre for Avian Malaria Parasites in 1969. WHO/MAL/70.712, 4 pp.
- BIOZZI, G. and COAUTHORS. 1970. Effect de la vaccination par *Plasmodium berghei* irradié sur l'activité phagocytaire du système réticulo-endothélial au cours de l'infection du rat par ce plasmodium. WHO Bul. 42(1):163-168.
- CARTER, R. 1970. Enzyme variation in *Plasmodium berghei*. Roy. Soc. Trop. Med. and Hyg. Trans. 64(3):401-406.
- CHONGSUPHAJAISSIDHI, T., KASEMSUTH, R. and TEJAVANICHI, S. 1970. Changes in blood volume in acute *Plasmodium falciparum* infection. South-east Asian J. Trop. Med. and Pub. Health 1(1):165.
- COLLINS, W. E., WARREN, M., SKINNER, J. C. and ALLING, W. 1970. *Plasmodium inui*: serologic relationships of Asian isolates. Expt. Parasitol. 27(3):507-515.
- COX, F. E. G. and TURNER, S. A. 1970. Antigenic relationships between the malaria parasites and piroplasms of mice as determined by the fluorescent antibody technique. WHO/MAL/70.715, 7 pp.
- DASGUPTA, B. and CHATTERJEE, A. 1970. An unusual form of fertilization in the malaria parasite of the Himalayan flying squirrel. Parasitology 60(3):431-433.
- EINHEBER, A., WREN, R. E. and KLOBUKOWSKI, C. J. 1970. Interference of hepatic drug metabolism in *Plasmodium berghei*-infected mice and its therapeutic modification: a study of hexobarbital sleeping time and phenobarbital-induced liver stimulation. Expt. Parasitol. 27(3):424-443.
- GLEASON, N. N. and COAUTHORS. 1970. *Plasmodium ovale* malaria acquired in Viet-Nam. WHO Bul. 42(3):399-403.
- GOLDSMITH, J. M. 1969. Malaria parasites recorded from patients at Harari Central Hospital. Med. J. Zambia 3(3):112-117.
- HAWKING, F. 1970. The clock of the malaria parasite. Scientific Amer. 222(6):123-131.
- KASPRZAK, W. and RYDZEWSKI, A. 1970. Preservation of some parasitic Protozoa at low temperatures. Z. f. Tropenmed. u. Parasitol. 21(2):198-201. Ger. Sum. [Includes *Plasmodium berghei*.]
- KEYMER, I. F. 1969. Investigations on the duiker (*Sylvicapra grimmia*) and its blood Protozoa in Central Africa. Roy. Soc. (London) Philos. Trans. Ser. B. 255(798):33-108. [*Plasmodium* included.]
- KIELMANN, A., SARASIN, G., BERNHARD, A. and WEISS, N. 1970. Further investigations on *Plasmodium gallinaceum* as an antigen in human malaria. WHO/MAL/70.718, 11 pp.
- KIELMANN, A., WEISS, N. and SARASIN, G. 1970. *Plasmodium gallinaceum* as antigen in human malaria. WHO/MAL/70.717, 7 pp.
- LUPASCU, G. and COAUTHORS. 1969. The value of immunofluorescence tests for the detection of infections due to *P. malariae* and the dynamics of antibody titres during the infection and after radical treatment. Arch. Roumaines Path. Expt. et Microbiol. 28(1):157-166. In Fr.
- . 1970. The study of lysosomal enzymes of the spleen of mice injected with purified *Plasmodium berghei* antigen. WHO/MAL/70.711, 11 pp.
- PORTER, J. A., JR. and YOUNG, M. D. 1970. *Plasmodium vivax* infections in the spider monkeys, *Atelopus fusciceps* and *A. geoffroyi*. J. Parasitol. 56(3):426-430.
- RAO, K. N., SUBRAHMANYAM, D. and PRAKASH, S. 1969. Studies on the lipids of rat liver on infection with *Plasmodium berghei*. Indian J. Med. Res. 57(11):2102-2105.

SALAMAN, M. H., WEDDERBURN, N. and BRUCE-CHWATT, L. J. 1969. The immunodepressive effect of a murine *Plasmodium* and its interaction with murine oncogenic viruses. *J. General Microbiol.* 59(3):383-391.

SANKALÉ, M., DIOP, E. and FRAMENT, V. 1968. Contribution à l'étude de la place des affections parasitaires dans un service hospitalier de médecine générale. *Soc. Méd. Afr. Noire Lang. Fr. Bul.* 13(2):314-331. [Includes *Plasmodium*.]

SHERMAN, I. W., TING, I. P. and TANIGOSHI, L. 1970. *Plasmodium lophurae*: glucose-1-¹⁴C and glucose-6-¹⁴C catabolism by free plasmodia and duckling host erythrocytes. *Compar. Biochem. and Physiol.* 34(3):625-639.

SMITH, D. H., THEAKSTON, R. D. G. and MOORE, G. A. 1969. The ultrastructure of *Plasmodium falciparum* in splenectomized *Aotus trivirgatus* monkeys. *Ann. Trop. Med. and Parasitol.* 63(4):433-438.

THEAKSTON, R. D. G., FLETCHER, K. A. and MAEGRAITH, B. G. 1970. Ultrastructural localisation of NADH- and NADPH-dehydrogenases in the erythrocytic stages of the rodent malaria parasite, *Plasmodium berghei*. *Life Sciences Pt. II*, 9(8):421-429.

TOSTA, C. E. 1969. Estudo preliminar sobre a localização renal de complexos antígeno-anticorpo em ratos infectados com *Plasmodium berghei*. *Soc. Brasil. Med. Trop. Rev.* 3(5):283-287. Engl. Sum.

WANG, C. C. 1970. Multiple invasion of erythrocyte by malaria parasites. *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(2):268-270.

YOELI, M. and MOST, H. 1970. A study of inapparent infections of *Plasmodium vinckei* in the adult hamster (*Mesocricetus auratus*). *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(2):276-278.

YOELI, M. and SKLARSH, J. 1970. The course of simultaneously inoculated, concomitant infections with *Plasmodium vinckei* and *Plasmodium berghei* in white mice. *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(2):271-275.

See also Siddiqui et al. in Techniques Section.

Malaria—Simian

WARREN, M. 1970. Simian and anthropoid malarias—their role in human disease. *Lab. Animal Carc* 20 pt. 2(2):368-376.

Malaria—Therapeutics and Antimalarials

ABRAHAM, R. and HENDY, R. J. 1970. Effects of chronic chloroquine treatment of lysosomes of rat liver cells. *Expt. and Molecular Path.* 12(2):148-159.

____ and _____. 1970. Irreversible lysosomal damage induced by chloroquine in the retinæ of pigmented and albino rats. *Expt. and Molecular Path.* 12(2):185-200.

ADENIYI, A., HENDRICKSE, R. G. and HOUZA, V. 1970. Selectivity of proteinuria and response to prednisolone or immunosuppressive drugs in

children with malarial nephrosis. *Lancet* 7648: 644-648.

AIKAWA, M. and BEAUDOIN, R. L. 1970. *Plasmodium fallax*: high resolution autoradiography of exoerythrocytic stages treated with primaquine *in vitro*. *Expt. Parasitol.* 27(3):454-463.

ATKINSON, E. R. and PUTTICK, A. J. 1970. Antimalarials. II. Quinolinemethanols with decreased phototoxicity. *J. Medicinal Chem.* 13(3): 537-541.

AVIADO, D. M. and CAMBAR, P. J. 1969. Pathologic physiology and chemotherapy of *Plasmodium berghei*. X. Pulmonary edema and naphthoquinones. *Expt. Parasitol.* 26(3):354-368.

AVIADO, D. M. and REUTTER, H. A., JR. 1969. Pathologic physiology and chemotherapy of *Plasmodium berghei*. IX. Gastric secretion and the influence of 1-aminocyclopentane carboxylic acid (WR 14,997 or cycloleucine). *Expt. Parasitol.* 26(3):314-322.

BUNGE, W. R. 1970. Malaria chemoprophylaxis in Vietnam and post-Vietnam. *Amer. Med. Assoc. J.* 212(1):159.

CENEDELLA, R. J. and JARRELL, J. J. 1970. Suggested new mechanisms of antimalarial action for DDS involving inhibition of glucose utilization by the intracythrocytic parasite. *Amer. J. Trop. Med. and Hyg.* 19(4):592-598. [*Plasmodium berghei*.]

CHIN, W., CONTACOS, P. G. and COATNEY, G. R. 1970. Malaria therapy. *Roy. Soc. Trop. Med. and Hyg. Trans.* 64(3):461-462.

DUDLEY, K. H. and MILLER, H. W. 1970. Potential naphthoquinone antimalarials. 2-acylhydrazino-1,4-naphthoquinones. *J. Medicinal Chem.* 13(3):535-537.

ELSLAGER, E. F., HUTT, M. P. and WERBEL, L. M. 1970. Antimalaria and antischistosomal effects of a,a,a,á,á-hexachloroxylene derivatives and related halogenated hydrocarbons. *J. Medicinal Chem.* 13(3):542-544.

FINK, E. and GOLDENBERG, D. M. 1969. Antimalarial activity of actinomycin D and cyclophosphamide. *Soc. Expt. Biol. and Med. Proc.* 132(1):165-167.

FINK, E. and KRETSCHMAR, W. 1970. Chemo-therapeutische Wirkung von Standardmalariamitteln in einem vereinfachten Prüfverfahren an der *Plasmodium vinckeii*-infektion der NMRI-Maus. Z. f. Tropenmed. u. Parasitol. 21(2):167-181. Engl. Sum.

GUSMÃO, H. H. and JUAREX, E. 1970. A trial of CI-564 (Dapolar ®), a repository antimalarial for prophylaxis in Amapá, Brazil. *Amer. J. Trop. Med. and Hyg.* 19(3):394-400.

KRBECHEK, L. O., RITER, R. R., WAGNER, R. G. and HUFFMAN, C. W. 1970. The syntheses of phenanthrene amino alcohols as antimalarials. *J. Medicinal Chem.* 13(2):234-238.

LAING, A. B. G. 1969. Malaria suppression with low fortnightly doses of pyrimethamine alone or combined with sulfadoxine in the Gambia. WHO/MAL/69.704 Corr. 1, 1 p. [This is the correct title for WHO/MAL/69.704.]

LEIJVELD, J. and MZOO, F. 1970. The effect of small single doses of chloroquine on *Plasmodium falciparum* infections in Northeastern Tanzania. WHO Bul. 42(3):471-477.

PETERS, W. 1970. A new type of antimalarial drug potentiation. Roy. Soc. Trop. Med. and Hyg. Trans. 64(3):462-464.

RAMKARAN, A. E. and PETERS, W. 1969. The chemotherapy of rodent malaria, VIII. The action of some sulphonamides alone or with folic reductase inhibitors against malaria vectors and parasites, part 3: the action of sulphormethoxine and pyrimethamine on the sporogonic stages. Ann. Trop. Med. and Parasitol. 63(4):449-454.

RAZDAN, R. K., REINSEL, C. W. and ZITKO, B. A. 1970. Antimalarials. Antagonists of pantothenic acid. J. Medicinal Chem. 13(3):546-549.

ROSEMAN, K. A., GOULD, M. M., LINFIELD, W. M. and EDWARDS, B. E. 1970. Antimalarials. 8-Chloro-4-(2'N,N-dibutylamino-1'-hydroxyethyl)benzo[*h*]-1,6-naphthyridine. J. Medicinal Chem. 13(2):230-233.

SINGH, T. and BIEL, J. H. 1970. Antimalarials. Quinolinemethanol derivatives. J. Medicinal Chem. 13(3):541.

TALATI, S. M. and COAUTHORS. 1970. Synthesis of potential antimalarials: primaquine analogs. J. Pharmaceut. Sci. 59(4):491-495.

VAN DYKE, K., LANTZ, C. and SZUSTKIEWICZ, C. 1970. Quinacrine: mechanisms of antimalarial action. Science 169(3944):492-493.

WILSON, M., SULZER, A. J. and RUNCIK, K. 1970. Malaria-antibody patterns as determined by the IFA test in U. S. servicemen after chemotherapy. Amer. J. Trop. Med. and Hyg. 19(3):401-404.

WOMMACK, J. B., JR. and PEARSON, D. E. 1970. Potential antimalarials. IV. Quinoline-*a,a*-dialkylmethanols. J. Medicinal Chem. 13(3):383-386.

See also Klug et al. in Toxicology Section.

Malaria—Antimalarials—Resistance

DUPOUX, R., ALDIGHIERI, J. and BLANCHARD, A. 1969. Essai d'obtention d'une souche de *Plasmodium berghei* sulfamido-resistante. Soc. de Path. Exot. Bul. 62(6):1072-1077. Engl. Sum.

FERONE, R. 1970. Dihydrofolate reductase from pyrimethamine-resistant *Plasmodium berghei*. J. Biol. Chem. 245(4):850-854.

FITCH, C. D. 1970. *Plasmodium falciparum* in owl monkeys: drug resistance and chloroquine binding capacity. Science 169(3942):289-290.

MBOMO, S. A. and OCHRYMOWICZ, J. 1970. Enquête effectuée au Cameroun sur la présence possible de souches de *Plasmodium falciparum* résistantes à la chloroquine. WHO Bul. 42(1):168-170.

Malaria—Vectors

CHOW, C. Y. 1970. Bionomics of malaria vectors in the Western Pacific Region. Southeast Asian J. Trop. Med. and Pub. Health 1(1):40-57.

KRAFSUR, E. S. 1970. *Anopheles nili* as a

vector of malaria in a lowland region of Ethiopia. WHO Bul. 42(3):466-471.

YELLOW FEVER

MARTIN, M. 1969. Analyse des populations virales obtenues par la méthode des plages avec la souche française du virus amaril viscérotrope. Inst. Pasteur Ann. 116(3):391-403.

——— and BRÈS, P. 1969. Culture de la souche française du virus amaril viscérotrope sur cellules de rein de porc. Inst. Pasteur Ann. 116(3):383-390.

METSELAAR, D., HENDERSON, B. E., KIRYA, G. B. and TIMMS, G. L. 1970. Recent research on yellow fever in Kenya. East Afr. Med. J. 47(3):130-137.

MOUCHET, J. 1970. Survey of *Aedes aegypti* and other yellow-fever vectors in Somalia and the French Territory of the Afars and Issas. WHO/VBC/70.185, 12 pp.

OUDART, J. L. and REY, M. 1970. Protéinurie, protéinémie et transaminasémies dans 23 cas de fièvre jaune confirmée. WHO Bul. 42(1):95-102. Engl. Sum.

LIGHT AND OTHER TRAP STUDIES

BERTRAM, D. S., VARMA, M. G. R., PAGE, R. C. and HEATHCOTE, O. H. U. 1970. A betalight trap for mosquito larvae. J. Med. Ent. 7(2):267-270.

BUCKLEY, D. J. and STEWART, W. W. A. 1970. A light-activated switch for controlling battery-operated light traps. Canad. Ent. 102(7):911-912.

JAKOB, W. L., FAY, R. W., von WINDEGUTH, D. L. and SCHOOF, H. F. 1970. Evaluation of materials for ovitrap paddles in *Aedes aegypti* surveillance. J. Econ. Ent. 63(3):1013-1014.

KURASHIGE, Y. 1970. Nocturnal succession of the mosquitoes captured by a light trap in Utsunomiya City. Jap. J. Sanit. Zool. 20(4):236-239. In Jap., Engl. Sum. and Fig. Titles.

SERVICE, M. W. 1969. The use of traps in sampling mosquito populations. Ent. Expt. et Applicata 12(4):403-412.

———. 1970. A battery-operated light-trap for sampling mosquito populations. WHO/MAL/70/721, WHO/VBC/70.207, 11 pp. Illus.

SHIMIZU, Y., TAKAHASHI, M. and YABE, S. 1969. Use of the truck trap for the survey of mosquito population and the physiological age composition. Jap. J. Sanit. Zool. 20(2):76-80. In Jap., Engl. Sum., Graphs and Tables.

SMITH, T. A. and DOWNS, M. A. 1970. An alternative power source for the CDC miniature light trap. Calif. Vector Views 17(1):3.

STEWART, W. W. A. 1970. A modified CDC light trap. Mosquito News 30(2):188-191.

WATANABE, M. 1969. Notes on horseflies (Diptera: Tabanidae) found in the dry ice trap set for the collection of mosquitoes. Jap. J. Sanit. Zool. 20(2):102-105. In Jap., Engl. Sum.

BOOKS

BARLOW, R. 1968. The economic effects of malaria eradication. Bur. Pub. Health Econ. Res. Ser. No. 15, 167 pp. Ann. Arbor, Mich. Univ. Mich. School of Public Health.

BROWN, H. W. 1969. Basic clinical parasitology. Edition 3. 345 pp., New York. Appleton-Century-Crofts. [Malaria, filariasis and arboviruses included.]

DALES, R. P. (Editor). 1970. Practical invertebrate zoology. A laboratory manual. 356 pp., Seattle. Univ. of Washington Press. [Mosquitoes, *Brugia* and *Plasmodium* mentioned.]

DE KUIJF, H. A. M. 1970. Aspects of the ecology of mosquitoes in relation to the transmission of arboviruses in Surinam. 100 pp., plus 31 pp. of appendix, Rotterdam. Drukkerij Bronder-Offset.

GOODHEART, C. R. 1969. An introduction to virology. 432 pp., Philadelphia, London, Toronto. W. B. Saunders Co. [Includes arboviruses.]

ORGANISATION DE COORDINATION ET DE CO-OPÉRATION POUR LA LUTTE CONTRE LES GRANDES ENDÉMIÉS. 1968. Rapport final de la huitième conférence technique de l'O.C.C.G.E. Bamako, du 19 au 24 avril 1968. Vol. I, 369 pp., Vol. II, pp. 370-650. Bobo-Dioulasso. [Includes numerous papers on mosquitoes and mosquito-borne diseases.]

RADELEFF, R. D. 1970. Veterinary toxicology. Edition 2. 352 pp. Philadelphia. Published by Lea and Febiger. [Includes insecticides used for mosquito control.]

SZEBENYI, E. S. 1969. Atlas of *Macaca mulatta*. 307 pp., Rutherford, Madison, Teaneck. Fairleigh Dickinson Univ. Press. [Experimental animal for mosquito-borne diseases.]

NEW PERIODICALS

Southeast Asian Journal of Tropical Medicine and Public Health is published by the Central Coordinating Board for Tropical Medicine and

Public Health Project of SEAMEC, Bangkok, Thailand. Vol. 1, number 1 appeared in March 1970. This is to be published on a quarterly basis.

LITERATURE REFERENCES AND REVIEWS

DUKHANINA, N. N. 1970. Soviet literature on problems of medical parasitology and parasitic diseases in 1969. Med. Parazit. i Parazit. Bolezni 39(2):245-250. In Rus. [Includes mosquitoes.]

SOLLERS-RIEDEL, H. 1970. Literature references to mosquitoes and mosquito-borne diseases. Mosquito News 30(2):314-329.

WORLD HEALTH ORGANIZATION. 1970. List of WHO/Mal/documents issued January 1965-December 1969. WHO/MAL/70.710, 53 pp.

BIOGRAPHY AND HISTORY

BRADLEY, G. H. 1970. WILLARD V. KING. Mosquito News 30(2):308-310.

VAN THIEL, P. H. 1970. Nicolaas Hendrik Swellengrebel, August 12th, 1885-January 1st, 1970. Trop. and Geog. Med. 22(1):1-2.

WIJERS, D. J. B. 1970. Nicolaas Hendrik Swellengrebel, 1885-1970. Roy. Soc. Trop. Med. and Hyg. Trans. 64(2):315.

SUBJECTS NOT COVERED BY OTHER HEADINGS

KARTMAN, L. 1970. The relation between arthropod-induced hypersensitivity and vector-borne pathogens—a hypothesis. WHO/PD/70.1, 14 pp.

RUTLEDGE, L. C. 1970. Some effects of fumagillin on *Anopheles stephensi*. Mosquito News 30(2):118-121.

ZIEGLER, K. 1970. Problems and experiences in the field of tropical medicine in the German Democratic Republic. Inst. Marine Med. Gdańsk Bul. 21(1/2):25-35. [*Plasmodium* and *Wuchereria* included.]