

LITERATURE REFERENCES TO MOSQUITOES AND MOSQUITO-BORNE DISEASES

HELEN SOLLERS-RIEDEL¹

Plant Pest Control Division, Agricultural Research Service, United States Department of Agriculture

ADULTICIDES AND LARVICIDES

- BOWMAN, M. C., FORD, H. R., LOFGREN, C. S. and WEIDHAAS, D. E. 1968. Residues of Abate®: analysis in mosquito larvae and larvicide suspensions by flame photometric gas chromatography. *J. Econ. Ent.* 61(6):1586-1589.
- CHAMBERS, G. V. 1968. Factors to consider in field evaluations of Flit® MLO, a new control measure for resistant strains. *Calif. Mosquito Cont. Assoc. Proc.* 36:93.
- COVELL, C. V., Jr. 1968. Mosquito control and survey in Jefferson County, Kentucky. *Mosquito News* 28(4):526-529.
- COZ, J., VENARD, P. and EYRAUD, M. 1967. Expérimentation en Haute-Volta d'un tissu imprégné de Baygon OMS 33. *Entomologie Médicale Cah.* 5(4):217-221. *Engl. Sum.*
- GAHAN, J. B., WILSON, H. G. and SMITH, C. N. 1968. Effectiveness of new insecticides as residual sprays for the control of *Anopheles quadrimaculatus* in buildings. *Mosquito News* 28(4):506-512.
- GEIB, A. F. and DE WITT, R. H. 1968. Experiences with aerial dusting in the Kern Mosquito Abatement District—1967. *Mosquito News* 28(4):524-525.
- GILLIES, P. A. and WOMELDORF, D. J. 1968. Field tests of Flit® M.L.O. on larvae of the pasture mosquito *Aedes nigromaculis*. *Calif. Mosquito Cont. Assoc. Proc.* 36:92.
- GLANCEY, B. M., LOFGREN, C. S. and MOUNT, G. A. 1968. Aerial insecticidal sprays against resistant salt-marsh mosquitoes *Aedes taeniorhynchus* (Wiedmann) and *Aedes sollicitans* (Walker). *Mosquito News* 28(4):593-595.
- GRAHAM, J. E., ABDULCADER, M. H. M., MATHIS, H. L. and SEBASTIAN, A. 1968. Studies on the control of *Culex pipiens fatigans* Wiedemann. *WHO/VBC/68.96*, 15 pp.
- HUNT, P. J. 1968. The use of helicopters in Florida for rapid inspection for salt marsh *Aedes* larvae. *Mosquito News* 28(4):495-498.
- KNAAPP, F. W. 1968. Aerial application of a chemical fog for the control of mosquito larvae and adults. *Mosquito News* 28(4):516-524.
- and ROGERS, C. E. 1968. Low volume aerial insecticide application for the control of *Aedes sollicitans* Walker. *Mosquito News* 28(4):535-540.
- McFARLAND, G. C. 1968. Field experience with larvicide oils and flit (MLO) by the Southeast Mosquito Abatement District. *Calif. Mosquito Cont. Assoc. Proc.* 36:92.
- MICKS, D. W. 1968. Petroleum hydrocarbons in mosquito control. *Soap and Chem. Spec.* 44(6):80, 82, 84, 88.
- MULLA, M. S., CHAUDHURY, M. F. B. and DARWAZEH, H. A. 1968. Release of new mosquito larvicides into water from granular formulations. *WHO/VBC/68.94*, 3 pp.
- ODINETS, A. A. and OKTYABRSKAYA, T. A. 1968. Trial of Carbofophos on larvae of *Aedes* and *Culex* mosquitoes. *Med. Parazit. i Parazit. Bolezni* 37(5):609-613. *In Rus., Engl. Sum.*
- PANT, C. P. and COAUTHORS. 1968. A village scale trial of OMS-597 for the control of *An. gambiae* and *An. funestus* in Northern Nigeria. *WHO/VBC/68.104*, 8 pp.
- PANT, C. P. and JOSHI, G. P. 1968. A field study of an airborne toxic effect of OMS-33 residual spray. *WHO/VBC/68.108*, 5 pp.
- PANT, C. P., RAMSAMY, M., RENAUD, P. and SELF, L. S. 1968. Comparative performance of OMS-33 residual spray and OMS-33 and OMS-716 impregnated cheesecloth for control of *An. gambiae* and *An. funestus* in Nigeria. *WHO/VBC/68.101*, 19 pp.
- PANT, C. P. and SELF, L. S. 1968. Recovery after knockdown and non-contact toxicity of carbamates carbamult and arpcarb. *Mosquito News* 28(4):630-638.
- SJOGREN, R. D. and MULLA, M. S. 1968. Drip application of three organophosphorus insecticides for mosquito control. *Calif. Mosquito Cont. Assoc. Proc.* 36:40.
- STROUD, R. F. and STEVENS, L. F. 1968. Control of mosquito adults and larvae using Baytex® and Baygon® in a SiO₂ chemical fog. *Mosquito News* 28(4):569-571.
- THOMPSON, G. A. 1968. A note on fog application. *Mosquito News* 28(4):643.
- YAP, H. H., CUTKOMP, L. K. and BUZICKY, A. W. 1968. Insecticidal tests against *Mansonia perturbans* (Walker). *Mosquito News* 28(4):504-506.

VARIOUS TYPES OF CONTROL

- BARNES, W. W. and WELSB, A. B. 1968. A field evaluation of Abate briquettes in Woodland pools. *Mosquito News* 28(3):458-461.
- CATES, M. D. 1968. The effect of improved rice farming techniques on mosquito populations in central Taiwan. *Mosquito News* 28(4):582-585.
- FALES, J. H., MILLS, G. D., JR. and DURBIN, C. G., JR. 1968. Evaluation of smoke from insecticidal coils against mosquitoes. *Mosquito News* 28(4):547-553.

¹Complete mailing address: P.O. Box 19009, Washington, D.C., 20036, U.S.A.

- GLADNEY, W. J. and TURNER, E. C., JR. 1968. Mosquito control on Smith Mountain Reservoir by pumped storage water level management. Mosquito News 28(4):606-618.
- PROVERBS, M. D. 1969. Induced sterilization and control of insects. Ann. Rev. Ent. (Palo Alto) 14:81-102. [Mosquitoes mentioned.]
- RIoux, J. A. and COAUTHORS. 1968. Phytoecological basis of mosquito control: cartography of larval biotopes. Mosquito News 28(4):572-582.
- RIoux, J. A., CROSET, H., CORRE, J. J. and SIMONEAU, P. 1967. Les bases phyto-écologiques de la lutte antilicidienne dans le "Midi" Méditerranéen. Inst. Pasteur Tunis Arch. 44(4):429-441.
- SJOGREN, R. D. 1968. Experimental use of *Lemna* to prevent mosquito breeding in organically polluted waters. Calif. Mosquito Cont. Assoc. Proc. 36:31-33.
- SMITH, A. and OBUDHO, W. O. 1967. Trials with pyrethrum mosquito coils against *Anopheles gambiae* entering a verandah-trap hut. Pyrethrum Post 9(2):15-17.
- WHITTEN, G. R. 1968. Weed control in the Delta Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:17-18.
- WILTON, D. P., CLINE, R. E. and FAY, R. W. 1968. Two formulations effective in the laboratory as ovicides for *Aedes aegypti* (L.). Mosquito News 28(4):602-606.
- ### STERILIZATION METHODS
- PATTERSON, R. S., LOFGREN, C. S. and BOSTON, M. D. 1968. Sterile males for mosquito control: a field cage study with *Culex pipiens quinquefasciatus*. Mosquito News 28(4):540-544.
- ### MOSQUITO CONTROL AGENCY PROBLEMS
- GEVESHUSEN, E. L. 1968. Operational approach to mosquito control and other vectors in the Southeast Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:47-48.
- GREENFIELD, H. R. and MARION, H. W. 1968. Operation Alisal Slough. Calif. Mosquito Cont. Assoc. Proc. 36:17.
- KAUFFMAN, E. E. 1968. A review of the activities of the coordination committee on mosquito suppression and fish and wildlife management. Calif. Mosq. Cont. Assoc. Proc. 36:77-78.
- LEWIS, E. O. 1968. Operational approach to mosquito control in the Kings Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:46-47.
- MACBAIN, A. G. 1968. The silent supervisor (a functional organizational chart). Mosquito News 28(4):646.
- McFARLAND, G. C. 1968. Weed control policies and weed control programs in the Southeast Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:18-19.
- MEZGER, E. G. 1968. A cooperative approach in controlling mosquitoes on duck club lands. Calif. Mosquito Cont. Assoc. Proc. 36:41-42.
- PEST CONTROL. 1968. First county-district for Kentucky. Pest Control 36(10):60-61.
- PETERS, R. H. 1968. Moral and legal aspects of weed control in mosquito abatement programs. Calif. Mosquito Cont. Assoc. Proc. 36:19.
- REICH, J. A. 1968. How mosquito control benefits everyone. Calif. Mosquito Cont. Assoc. Proc. 36:11.
- ROGERS, C. J. 1968. The operational program of the San Mateo County Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:44-46.
- ### PARASITES, PREDATORS, VIRUSES AND RELATED AGENTS
- ANDERSON, J. F. 1968. Microsporidia parasitizing mosquitoes collected in Connecticut. J. Invertebrate Path. 11(3):440-455.
- BERGOLD, G. H., SUAREZ, O. M. and MUNZ, K. 1968. Multiplication in and transmission by *Aedes aegypti* of vesicular stomatitis virus. J. Invertebrate Path. 11(3):406-428.
- IGNOFFO, C. M. 1968. Specificity of insect viruses. Ent. Soc. Amer. Bul. 14(4):265-276. [Mosquitoes included.]
- ILCHENKO, L. YA. 1968. Infection rate of *Culex pipiens* L. mosquitoes with parasitizing fungus *Entomophthora conglomerata* Sorok. in the vicinity of Novocheerkassk. Med. Parazit. i Parazit. Bolezni 37(5):613-614. In Rus., Engl. Sum.
- LINLEY, J. R. and NIELSEN, H. T. 1968. Transmission of a mosquito iridescent virus in *Aedes taeniorhynchus*. I. Laboratory experiments. II. Experiments related to transmission in nature. J. Invertebrate Path. 12(1):7-16; 17-24.
- LOWE, R. E., RUMBAUGH, R. G. and PATTERSON, R. S. 1968. *Entomophthora coronata* as a pathogen of mosquitoes. J. Invertebrate Path. 11(3):506-507.
- ROBERTS, D. W. 1967. Some effects of *Metarhizium anisopliae* and its toxins on mosquito larvae. In Insect pathology and microbial control. (Edited by P. A. van der Laan). pp. 243-246. [Internat. Colloq. on Insect Path. and Microbial Control Proc.]
- SCHACHER, J. R. and KHALIL, G. M. 1968. Development of *Foleyella philistinae* Schacher and Khalil, 1967 (Nematoda:Filarioidea) in *Culex pipiens molestus* with notes on pathology in the arthropod. J. Parasitol. 54(5):869-878.
- TRPIŠ, M., HAUFE, W. O. and SHERMANCHUK, J. A. 1968. Mermitid parasites of the mosquito *Aedes vexans* Meigen in British Columbia. Canad. J. Zool. 46(5):1077-1079.
- WOODARD, D. B. and CHAPMAN, H. C. 1968. Laboratory studies with mosquito iridescent virus (MIV). J. Invertebrate Path. 11(2):296-301.
- ### EQUIPMENT
- AMERICAN MOSQUITO CONTROL ASSOCIATION. 1968. Ground equipment and insecticides for mosquito control. Amer. Mosquito Cont. Assoc. Bul. 2, 100 pp. Revised.
- SCHERAGO, E. J. and SHEFFER, B. J. 1968.

Guide to scientific instruments. Science 162A (3856A):9-14.

ATTRACTANTS AND REPELLENTS

WOOD, P. W. 1968. The effect of humidity on the repellency of ethylhexanediol ('6-12') to *Aedes aegypti*. Canad. Ent. 100(12):1331-1334.

RESISTANCE AND SUSCEPTIBILITY

BUSVINE, J. R. and PAL, R. 1968. Impact of insecticide resistance on vector and disease control. WHO/VBC/68.100, 16 pp. [Includes mosquitoes.]

CHOUHDURY, D. S. and RAHMAN, S. J. 1967. Observation on the irritability of susceptible and resistant strains of *A. stephensi* (type) to DDT. Indian Soc. Malaria and other Commun. Dis. Bul. 4(2):129-134.

Craven, B. R. and STEELMAN, C. D. 1968. Relative susceptibility of *Psorophora confinis* (Lynch-Arribalzaga) larvae in the rice producing area of southern Louisiana to selected insecticides. Mosquito News 28(4):596-597.

HAMON, J., SALES, S. and SUBRA, R. 1967. La résistance à la dieldrine de *Culex pipiens fatigans* dans la ville de Bobo-Dioulasso (Haute-Volta) méthodes d'étude et déterminisme génétique. Entomologie Médicale Cah. 5(4):229-261. Engl. Sum.

HAMON, J., SUBRA, R., SALES, S. and COZ, J. 1968. Présence dans le sud-ouest de la Haute-Volta d'une population d'*Anopheles gambiae* "A" résistante au D.D.T. Méd. Trop. (Marseille) 28(3):521-528.

MURRAY, W. D. 1968. Field test of Flit® organophosphorus-resistant *Aedes nigromaculis* in the Delta Mosquito Abatement District. Calif. Mosquito Cont. Assoc. Proc. 36:93.

NAIR, K. K. 1967. Susceptibility of mosquito larvae to a synthetic juvenile hormone, farnesyl diethylamine. Naturwissenschaften 54(18):494-495.

SAUTET, J., ALDIGHERI, J. and QUILICI, M. 1968. L'effet de groupe dans les tests de résistance aux insecticides chez *Aedes aegypti*. WHO Bul. 38(6):967-970. Engl. Sum.

SCHAEFER, C. H. 1969. Pasture mosquito resistance in California. Pest Control 37(1):36-37.

TUN, M. M. and SELF, L. S. 1968. The susceptibility of *Culex pipiens fatigans* larvae to fenitron after two years of larval control in Rangoon, Burma. WHO/VBC/68.77, 8 pp.

YASUNO, M. and KERDIBULE, V. 1968. Susceptibility of larvae of *Culex pipiens fatigans* to organophosphorus insecticides in Thailand. Jap. J. Expt. Med. 37(6):559-562.

——— and ———. 1968. The susceptibility of various species of mosquitoes to DDT and diel-drin in Thailand. Jap. J. Expt. Med. 37(6):563-579.

YASUNO, M., PURIVETHAYA, Y. and HARINASUTA, C. 1968. Dieldrin and DDD resistance of *Culex pipiens fatigans* in Thailand. Jap. J. Expt. Med. 37(6):535-546.

YASUNO, M., PURIVETHAYA, Y., KERDIBULE, V. and HARINASUTA, C. 1968. Susceptibility of *Mansonia* mosquitoes to certain insecticides in Thailand. Jap. J. Expt. Med. 37(6):547-558.

ZULUETA, J. DE, CHANG, T. L., CULLEN, J. R. and DAVIDSON, G. 1968. Recent observations on insecticide resistance in *Anopheles stephensi* in Iraq. Mosquito News 28(4):499-503.

INSECTICIDES AND CHEMICALS

BILLINGS, S. C. 1968. Additions and corrections, consolidated list of approved common names of insecticides and certain other pesticides. Ent. Soc. Amer. Bul. 14(4):289.

RAMASAMY, M. 1968. The fate of OMS-33 as residue on mud and impregnated on cheese-cloth. WHO/VBC/68.103, 4 pp.

——— and RENAUD, P. G. 1968. The tropical storage stability of water-dispersible formulations of six new insecticides. WHO/VBC/68.102, 14 pp.

WINTERINGHAM, F. P. W. 1969. Mechanisms of selective insecticidal action. Ann. Rev. Ent. (Palo Alto) 14:409-442.

TOXICOLOGY

FAUR, N. and KEMÉNY, T. 1968. Effects of long-term ingestion of small amounts of DDT on blood picture of mice (BALB/c). Gig. i Sanit. 33(2):248-250. [Translated from Russian.]

LYMAN, L. D., TOMPKINS, W. A. and McCANN, J. A. 1968. Residues in fish, wildlife and estuaries. Massachusetts pesticide monitoring study. Pesticides Monitor. J. 2(3):109-122.

MARSTON, R. B., SCHULTS, D. W., SHIROYAMA, T. and SNYDER, L. V. 1968. Pesticides in water. Amitrol concentrations in creek waters downstream from an aerially sprayed watershed sub-basin. Pesticides Monitor. J. 2(3):123-128.

SHILOVA, S. A., SMIRNOV, A. A., OGNEV, V. A. and VORONOVA, L. D. 1968. On the effect of Sevin on sexual functions of warm-blooded animals. Med. Parazit. i Parazit. Bolezni 37(5):604-609.

SINGH, M. V., RASTOGI, K. C. and SRIVASTAVA, R. N. 1967. A note on the local toxicity produced by mosquito larvicidal oil. Indian Soc. Malaria and other Commun. Dis. Bul. 4(2):153-154.

VANDEKAR, M. and WILFORD, K. 1968. Studies on the safety of OMS-708 (Mobam) and OMS-214 (Dicapthon) sprayed as adulticides in stage V in Northern Nigeria. WHO/VBC/68.99, 6 pp.

WORLD HEALTH ORGANIZATION. 1968. Information circular on the toxicity of pesticides to man. VBC/Tox/68. 1, 27 pp.

BEHAVIOR, BIOLOGY AND ECOLOGY

AKEY, D. H. and JONES, J. C. 1968. Sexual responses of adult male *Aedes aegypti* using the forced-copulation technique. Biol. Bul. 135(3):445-453.

ANDERSON, J. F. 1968. Day length governs seasonal cycle of mosquitoes. Frontiers Plant Sci. 20(2):6-7.

- BABAYANTS, G. A. 1968. Conditions of formation of water reservoirs—breeding places of blood-sucking mosquitoes (Culicidae). Med. Parazit. i Parazit. Bolezni 37(5):565-570. In Rus., Engl. Sum.
- CHANG, S. L. 1966. An investigation of the influence of floral scents on aggregation behaviour of the mosquito *Aedes aegypti* L. (Culicidae: Diptera). Plant Protect. Bul. (Taiwan) 8(1): 50-63. In Engl.
- CHIBA, Y. 1968. The effect of photoperiod on the pupation of hibernating larvae of a mosquito *Armigeres subulbatus*. Jap. J. Ecol. 18(1):43-45.
- DAS, M., MAMMEN, M. L., BASU, P. C. and WATTAL, B. L. 1967. Influence of mating on blood feeding and oviposition in *Culex fatigans*. Indian Soc. Malaria and other Commun. Dis. Bul. 4(2):109-113.
- DOWNES, J. A. 1969. The swarming and mating flight of Diptera. Ann. Rev. Ent. (Palo Alto) 14:271-298. [Mosquitoes included.]
- FOX, I., RIVERA, G. A. and BAYONA, I. G. 1968. Seasonal variation of *Aedes taeniorhynchus* (Wiedemann) at the International Airport, Isla Verde, Puerto Rico. J. Agr. Univ. Puerto Rico 52(2): 164-176.
- GWADZ, R. W. and CRAIG, G. B., JR. 1968. Sexual receptivity in female *Aedes aegypti*. Mosquito News 28(4):586-593.
- HADDOW, A. J. and COAUTHORS. 1968. Entomological studies from a high steel tower in Zika Forest, Uganda. Part II. The biting activity of mosquitoes above the forest canopy in the hour after sunset. Roy. Ent. Soc. London Trans. 120(9):219-236.
- HARADA, F., MORIYA, K. and YABE, T. 1967. Observations on the habits of feeding and oviposition of *Culex tritaeniorhynchus* Giles. Jap. J. Appl. Ent. and Zool. 11(3):83-89. In Jap., Engl. Sum.
- KLIEWER, J. W., MIURA, T. and CHAPMAN, H. C. 1969. Seasonal occurrence and physiology of *Culex tarsalis* in foothills of Fresno County, California. Ent. Soc. Amer. Ann. 62(1):13-18.
- MAIN, A. J., HAYES, R. O. and TONN, R. J. 1968. Seasonal abundance of mosquitoes in southeastern Massachusetts. Mosquito News 28(4): 619-626.
- MCIVER, S. B. 1968. Host preferences and discrimination by the mosquitoes *Aedes aegypti* and *Culex tarsalis* (Diptera:Culicidae). J. Med. Ent. 5(4):422-428.
- MINSON, K. L. and GRAHAM, J. E. 1968. Further observations on *Aedes vexans* (Meigen) in Utah. Mosquito News 28(4):553-558.
- MUIRHEAD-THOMSON, R. C. 1968. Ecology of insect vector populations. 174 pp., London, New York. [Includes mosquitoes.]
- NAYAR, J. K. 1968. The pupation rhythm in *Aedes taeniorhynchus*. IV. Further studies of the endogenous diurnal (circadian) rhythm of pupation. Ent. Soc. Amer. Ann. 61(6):1408-1417.
- OTSUBU, M., SAITO, Y. and SATO, S. 1967. Survey of mosquitoes in some dairy barns, 1965 to 1966, in Niigata Prefecture Japan. Acta Med. et Biologica (Niigata) 14(4): 163-179.
- PENNINGTON, N. E. and PHELPS, C. A. 1968. Identification of the host range of *Culex tritaeniorhynchus* mosquitoes on Okinawa, Ryukyu Islands. J. Med. Ent. 5(4):483-487.
- SALITERNIK, Z. 1967. Field investigations on the bionomics of *Anopheles sergenti* Theo. in Israel during the years 1961-65. Israel J. Ent. 2: 145-162.
- SAMARAWICKREMA, W. A. 1968. Biting cycles and parity of the mosquito *Mansonia (Mansonioides) uniformis* (Theo.) in Ceylon. Bul. Ent. Res. 58(2):299-314.
- TANAKA, I. 1968. Difference of larval period observed between males and females of *Culex pipiens pallens*. Jap. J. Sanit. Zool. 19(3):194-196. In Jap., Engl. Sum.
- THOMPSON, E. G. and BELL, L. H. 1968. Laboratory studies on the biology of *Anopheles stephensi* Liston. Mosquito News 28(4):639-642.
- WILTON, D. P. 1968. A laboratory study of larval competition between *Aedes aegypti* (L.) and *Aedes triseriatus* (Say). Mosquito News 28(4):627-630.
- YASUNO, M. and HARINASUTA, C. 1968. The studies of the behavior of *Culex pipiens fatigans* with special reference to dispersal, mating and feeding. Jap. J. Expt. Med. 37(6):525-534.
- See also Barkai and Saliternik in Distribution Section.

GENETICS

KANDA, T. 1968. Studies on karyotypes of some Japanese mosquitoes. Jap. J. Expt. Med. 37(6): 37-46.

KIKINADZE, I. I. 1967. Chromosomes of Diptera. I. Culicidae (evolutionary and practical importance of studying the karyotypes). Genetika No. 11:145-165. In Rus., Engl. Sum.

WORLD HEALTH ORGANIZATION. 1968. Cytogenetics of vectors of disease of man. WHO Tech. Rpt. Ser. No. 398, 41 pp. [Mosquitoes included.]

ANATOMY, MORPHOLOGY AND PHYSIOLOGY

AKEY, D. H. and JONES, J. C. Coitus by *Aedes aegypti* males with unrotated and partially rotated terminalia. Mosquito News 28(4):652-653.

BECKETT, E. B. and MACDONALD, W. W. 1968. The distribution pattern of indirect flight muscle fibres in *Aedes aegypti* (L.) (Diptera:Culicidae). Roy. Ent. Soc. London Proc. Ser. A 43(7/9):135-139.

BURST, R. A. 1968. Effect of starvation on molting and growth in *Aedes aegypti* and *A. vexans*. J. Econ. Ent. 61(6):1570-1572.

COLUZZI, M. and TRABUCCHI, R. 1968. Importanza dell'armatura bucco-faringea in *Anopheles* e *Culex* in relazione alle infezioni con *Dirofilaria*. Parassitologia 10(1):47-59. Engl. Sum.

EDDLEMAN, C. D. 1968. Morphological and biometrical differentiation of the larval instars of mosquitoes. II. *Orthopodomyia alba* and *O. sig-*

nifera. Ent. Soc. Amer. Ann. 61(6): 1372-1380.

GANDER, E. 1968. Zur Histochemie und Histologie des Mitteldarmes von *Aedes aegypti* und *Anopheles stephensi* in Zusammenhang mit der Blutverdauung. Acta Tropica 25(2):133-175. Engl. Sum.

GUY, Y. 1967. Une hypothèse au sujet des larves monstrueuses dans le genre "*Anopheles*." Inst. Pasteur d'Algérie Arch. 45:51-61. Engl. Sum.

HERMAN, W. S. 1967. The ecdysial glands of arthropods. Internat. Rev. Cytol. 22:269-347. [Includes brief mention of mosquitoes.]

HINTON, H. E. 1969. Respiratory systems of insect egg shells. Ann. Rev. Ent. (Palo Alto) 14: 343-368. [Includes mosquitoes.]

ISMAIL, I. A. H. and HAMMOUD, E. I. 1968. The use of colococonic sensillae on the female antenna in differentiating the members of the *Anopheles gambiae* Giles complex. WHO Bul. 38(5):814-821.

JONES, J. C. and ZEVE, V. H. 1968. The fine structure of the gastric caeca of *Aedes aegypti* larvae. J. Insect Physiol. 14(11):1567-1575.

PEYTON, E. L. and HOCHMAN, R. H. 1968. A revised interpretation of the proctiger of male *Uranotaenia* with a related note on *Hodgesia* (Diptera: Culicidae). Ent. Soc. Wash. Proc. 70 (4):376-382.

ROSAY, B. 1968. Accessory glands of female *Culex pipiens quinquefasciatus* Say and autogenous *Culex pipiens pipiens* L. (Diptera, Culicidae): appearance and behavior in relation to oögenesis. J. Med. Ent. 5(4):478-482.

SATIJA, R. C. and SUD, S. 1967. Postembryonic development of the eye ganglia in *Anopheles stephensi* Liston. Panjab Univ. Res. Bul. 18(1/2): 127-134.

VAN HANDEL, E. 1968. Utilization of injected maltose and sucrose by insects: evidence for non-intestinal oligosaccharidases. Compar. Biochem. and Physiol. 24(2):537-541.

WALKER, W. F. and MENZER, R. E. 1969. Chorionic melanization in the eggs of *Aedes aegypti*. Ent. Soc. Amer. Ann. 62(1):7-11.

See also Kliever et al. in Behavior, Biology and Ecology Section.

TECHNIQUES

ABOUALY, A. and HORSFALL, W. R. 1968. Bionomics of *Psorophora varipes*, a model laboratory mosquito. J. Econ. Ent. 61(6):1657-1660.

BANERJEE, K. and SINGH, K. R. P. 1968. Establishment of carrier cultures of *Aedes albopictus* cell line infected with arboviruses. Indian J. Med. Res. 56(6):812-814.

BARBOSA, P. 1968. Sex identification of live mosquito pupae in the laboratory. Mosquito News 28(4):643-644.

EVANS, F. D. S. and EVANS, H. T. 1968. A simple separator for mosquito larvae and pupae. Mosquito News 28(4):649-650.

HALL, T. F., BREELAND, S. G. and ANDERSON, P. K. 1969. Use of cherry-laurel foliage for prep-

aration of an effective insect-killing jar. Ent. Soc. Amer. Ann. 62(1):242-244. [Includes mosquitoes.]

HICHINS-O, N. 1968. Introducción, uso y perspectivas de la trampa Malaise en los programas de investigación entomológica en Chile. Rev. Chilena de Ent. 6:137-139.

HOLZAPFEL, E. P. and HARRELL, J. C. 1968. Transoceanic dispersal studies of insects. Pacific Insects 10(1):115-153. [Includes mosquitoes.]

LAARMAN, J. J. and GEROLD, J. L. 1968. Maastricht week van muskieten voor medisch-entomologische doeleinden. Ent. Berichten (Amsterdam) 28(5):86-87. Engl. Sum. [Rearing mosquitoes.]

MILLER, T. and METCALF, R. L. 1968. A simple device for insect mechanocardiogram. Ent. Soc. Amer. Ann. 61(6):1618.

NIJHOLT, W. W. and CHAPMAN, J. A. 1968. A flight trap for collecting living insects. Canad. Ent. 100(11):1151-1153.

NOWELL, F. R. and O'NEAL, A. T. 1968. An all-purpose field kit for collecting and transporting aquatic insects. Mosquito News 28(4):598-602.

PATTERSON, R. S., SMITTLE, B. J. and LOFGREN, C. S. 1968. Accumulation and transfer of ³²P by male southern house mosquitoes. J. Econ. Ent. 61(6):1546-1548.

PIPKIN, A. C. and CONNOR, T. J. 1968. A temperature-controlled feeding apparatus for hemaphysal arthropods. J. Med. Ent. 5(4):507-509. [Mosquitoes included.]

RAMSDALE, C. D. 1968. A simple manipulator for insect dissection. WHO/Mal/68.670, 2 pp.

REUBEN, R. 1968. Artificial breeding places for the study of *Aedes aegypti* breeding in a south Indian town. Indian J. Med. Res. 56(7):1019-1022.

ROWLEY, W. A., GRAHAM, C. L. and WILLIAMS, R. E. 1968. A flight mill system for the laboratory study of mosquito flight. Ent. Soc. Amer. Ann. 61(6):1507-1514.

TRPIŠ, M. 1968. A suction apparatus for collecting mosquitoes and other insects. Mosquito News 28(4):647-648.

WAGNER, V. E. 1968. Xerox transparencies as a training aid. Mosquito News 28(4):643.

WORLD HEALTH ORGANIZATION. 1968. An *Aedes aegypti* surveillance method. WHO/VBC/68.82, 2 pp.

See also Akey and Jones in Behavior, Biology and Ecology Section.

TAXONOMY

BELKIN, J. N. 1968. Mosquito studies (Diptera, Culicidae). IX. The type specimens of New World mosquitoes in European museums. Amer. Ent. Inst. Contrib. 3(4):1-69.

———, SCHICK, R. X. and HEINEMANN, S. J. 1968. Mosquito studies (Diptera, Culicidae). XI. Mosquitoes originally described from Argentina, Bolivia, Chile, Paraguay, Peru, and Uruguay. Amer. Ent. Inst. Contrib. 4(1):1-29.

BRUNHES, J. 1967. Contribution à l'étude des culicidés de Madagascar. Description des larves

- et nymphes de *Culex* (*C.*) *giganteus* Ventrillon et *Culex* (*C.*) *argenteopunctatus argenteopunctatus* Ventrillon. Notes complémentaires sur les adultes de ces deux espèces. Entomologie Médicale Cah. 5(4):207-216. Engl. Sum.
- . 1968. Contribution à l'étude des culicidés de Madagascar. Synonymie entre *Culex* (*N.*) *seyrigi* Edwards 1941 et *Culex* (*N.*) *robici* Doucet 1960; description de la nymphe et de la femelle de *Culex* (*N.*) *seyrigi* Edwards. Entomologie Médicale Cah. 6(1):15-19. Engl. Sum.
- and RAMBELO, J. 1968. Contribution à l'étude des culicidés de Madagascar. Description des adultes, nymphe et larve de *Culex* (*Neoculex*) *chauveti*. Entomologie Médicale Cah. 6(1):113-118. Engl. Sum. [n. sp.]
- CHAUVET, G. and DÉJARDIN, J. 1968. Caractères chétotaxiques de distinction entre larves (stade IV) de l'espèce A et de l'espèce B du complexe *Anopheles gambiæ* à Madagascar. Entomologie Médicale Cah. 6(1):69-101. Engl. Sum.
- CORRÉA, R. R. and RAMALHO, G. R. 1968. *Anopheles* (*Arribalzaga*) *anchictai* nova espécie de anofelino de São Paula, Brasil (Diptera, Culicidae). Rev. Brasil. de Malariol. 20(1/2):115-132. [n. sp.]
- DELFINADO, M. D., and HODGES, E. R. 1968. Three new species of the genus *Tripteroides*, subgenus *Tripteroides* Giles (Diptera:Culicidae). Ent. Soc. Wash. Proc. 70(4):361-375. [*T. denticulatus, malayi, tarsalis* n. spp.]
- EOUZAN, P. J., FERRARA, L. and RICKENBACH, A. 1967. Description du mâle, de la larve et de la nymphe de *Ficalbia* (*Eiorleptomyia*) *xanthozona* Van Someren, 1948 (Diptera, Culicidae). Entomologie Médicale Cah. 5(4):223-227. Engl. Sum.
- GILLIES, M. T. and DE MEILLON, B. 1968. The Anophelinae of Africa south of the Sahara (Ethiopian zoogeographical region). South Afr. Inst. Med. Res. Pub. No. 54, 343 pp. [*Anopheles jontinalis, murphyi, vernus* n. spp.]
- HUANG, Y. M. 1968. Neotype designation for *Aedes* (*Stegomyia*) *albopictus* (Skuse) (Diptera: Culicidae). Ent. Soc. Wash. Proc. 70(4):297-302.
- LIEN, J. C. 1968. New species of mosquitoes from Taiwan (Diptera:Culicidae). Part III. Five new species of *Aedes*. Trop. Med. (Nagasaki) 10(2):95-115. [*A. chungii, loi, omorii, penghuensis, watteni* n. spp.]
- LINERO, M. Q. DE. 1967. Nueva especie de "*Culex* (*Melanoconion*)". Rev. Brasil. de Biol. 27(3):289-291. [*C. ronderosi* n. sp.]
- SMITH, M. E. 1969. The *Aedes* mosquitoes of New England (Diptera:Culicidae). II. Larvae: keys to instars, and to species exclusive of first instar. Canad. Ent. 101(1):41-51.
- STEWART, C. C. 1968. Numerical classification of the Canadian species of the genus *Aedes* (Diptera:Culicidae). Systematic Zool. 17(4):426-437.
- ZAVORTINK, T. J. 1968. Mosquito studies (Diptera, Culicidae). VIII. A prodrome of the genus *Orthopodomyia*. Amer. Ent. Inst. Contrib. 3(2):1-221. [*O. siamensis* and *papucnsis* n. spp.]
- See also Ismail and Hammoud in Anatomy, Morphology and Physiology Section.
- ### DISTRIBUTION
- BARKAI, A. and SALITERNIK, Z. 1968. Anopheline mosquitoes found breeding in Israel in 1963-1965 during the last stage of the malaria eradication project. Bul. Ent. Res. 58(2):353-366.
- CHAPMAN, H. C. 1968. Some notes on the mosquitoes of Louisiana, including the addition of *Aedes hendersoni* Cockerell. Mosquito News 28(4):650-651. [Cockrell in original.]
- HOLMBERG, R. G. and TROFIMENKOFF, D. 1968. *Aedes melanion* in Saskatchewan. Mosquito News 28(4):651-652.
- KITCHING, R. 1967. Some insects from Lake Tana, Ethiopia. Ent. Monthly Mag. 103 (1241/1243):268-272. [Brief note on *Culex antennatus*.]
- MANDOUL, M., DUBOS, M., MOULINIER, C. and DE COURNUAD, M. 1968. Une enquête sur les culicidés de Charente-Maritime; présence du genre *Mansonia* Blanchard 1901: *M. (Coquillettia) richiardii* (Ficalbi) 1896 et *M. (C.) buxtoni* (Edwards) 1923. Soc. de Path. Exot. Bul. 61(2):282-288.
- RAGEAU, J. and MOUCHET, J. 1967. Les arthropodes hématophages de Camargue. Entomologie Médicale Cah. 5(4):263-281. [Includes mosquitoes.]
- SCANLON, J. E., PEYTON, E. L. and GOULD, D. J. 1968. An annotated checklist of the *Anopheles* of Thailand. Thai Natl. Sci. Papers Fauna Ser. No. 2, 35 pp.
- STONE, A. 1968. A new mosquito record for the United States (Diptera:Culicidae). Ent. Soc. Wash. Proc. 70(4):384 [*Culex latisquama*.]
- TARIQ, Z. K. 1967. A preliminary report of the mosquitoes in the Gilgit Agency Area. Pakistan J. Sci. 19(1/2):47-56.
- ### ARBOVIRUSES
- AITKEN, T. H. G., SPENCE, L., JONKERS, A. H. and ANDERSON, C. R. 1968. Wyeomyia-virus isolations in Trinidad, West Indies. Amer. J. Trop. Med. and Hyg. 17(6):886-888.
- ANUFRIEVA, V. N. 1968. A possible role of blood-sucking mosquitoes in the spread of arbovirus infection in the area of the Zaisan Lake. Med. Parazit. i Parazit. Bolezni 37(5):595-604. In Rus., Engl. Sum.
- ASPÖCK, H. 1968. Further investigations about mosquito-borne arboviruses in Austria. Zentrbl. f. Bakteriol. Parasit. Infektionskrank. u. Hyg. 208(1/2):69-80. In Ger., Engl. Sum.
- BALDUCCI, M. and COAUTHORS. 1968. Isolation of Tahyña virus from *Aedes* mosquitoes in northern Italy (Gorizia Province). Acta Virol. 12(5):457-459.
- BANERJEE, K. 1967. Evaluation of the effect of fresh serum factor in the neutralization of dengue viruses. Indian J. Med. Res. 55(5):405-410.
- BEZON, A. G. and COAUTHORS. 1968. Fièvres

- hémorragiques transmises par les moustiques à Saigon. 78 observations. Méd. Trop. (Marseille) 28(2):199-214.
- CHAMBERLAIN, R. W., SUDIA, W. D. and COLEMAN, P. H. 1969. Isolations of an arbovirus of the Bunyamwera group (Tensaw virus) from mosquitoes in the southeastern United States, 1960-1963. Amer. J. Trop. Med. and Hyg. 18(1):92-97.
- CHIPPAUX, A. and CHIPPAUX-HYPPOLITE, C. 1968. Stigmates de la diffusion du virus o'nyongnyong en République Centrafricaine. Méd. Trop. (Marseille) 28(3):345-362. Engl. Sum.
- COLEMAN, P. H. 1969. Tensaw virus, a new member of the Bunyamwera arbovirus group from the southern United States. Amer. J. Trop. Med. and Hyg. 18(1):81-91.
- FUKUMI, H. and COAUTHORS. 1967. Epidemiological studies on viral and parasitic diseases, and vector insects in East Africa. I. Virological studies, especially on the epidemiology of arboviruses. (Preliminary report). Trop. Med. (Nagasaki) 9(3):127-135. In Jap., Engl. Sum.
- HAZRATI, A. and OZAWA, Y. 1968. Quantitative studies on the neutralization reaction between African horse-sickness virus and antiserum. Arch. f. Gesamte Virusforsch. 25(1):83-92.
- HOFMANN, H. and KUNZ, C. 1968. Marburg virus (vervet monkey disease agent) in tissue cultures. Zentrbl. f. Bakteriell. Parasit. Infektionsskrank. u. Hyg. 208(1/2):344-347. In Ger., Engl. Sum. [Possibly mosquito-borne.]
- HOTTA, S., AOKI, H., YASUI, T. and SAMOTO, S. 1967. Virologic-epidemiological studies on Indonesia. Survey of anti-arboviral antibodies in sera from residents of Lombok, Sumatra and Djawa. Kobe J. Med. Sciences 13(3):221-234.
- HOTTA, S., YAMAMOTO, M., TOKUCHI, M. and SAKAKIBARA, S. 1968. Long persistence of antigenic antibodies in serum of native residents of Japanese main islands. Kobe J. Med. Sciences 14(2):149-153.
- JARMAN, R. V., MORGAN, P. N. and DUFFY, C. E. 1968. Persistence of West Nile virus in L-929 mouse fibroblasts. Soc. Expt. Biol. and Med. Proc. 129(2):633-637.
- JOHNSON, J. W. 1969. Growth of Venezuelan, and eastern, equine encephalomyelitis viruses in tissue cultures of minced *Aedes aegypti* larvae. Amer. J. Trop. Med. and Hyg. 18(1):103-114.
- JOHNSON, K. M. 1968. Further thoughts on arbovirus nomenclature. Amer. J. Epidemiol. 88(3):305-306.
- KATZ, E. and GOLDBLUM, N. 1968. Establishment, steady state and cure of a chronic infection of LLC cells with West Nile virus. Arch. f. die Gesamte Virusforsch. 25(1):69-82.
- _____ and _____. 1968. Isolation of an "antigenic variant" of West Nile virus, originating from a chronic infection of the virus in LLC cells. Israel J. Med. Sciences 4(4):911-913.
- _____ and _____. 1968. Selection of a "temperature" resistant mutant of West Nile Virus. Arch. f. die Gesamte Virusforsch. 25(1):65-68.
- KUNZ, C., HOFMANN, H. and ASPÖCK, H. 1968. Propagation of Marburg virus (vervet monkey disease agent) in *Aedes aegypti*. Zentrbl. f. Bakteriell. Parasit. Infektionsskrank. u. Hyg. 208(1/2):347-349. In Ger., Engl. Sum.
- LECATSAS, G. and WEISS, K. E. 1968. Electron microscopic studies on BKH 21 cells infected with Rift Valley fever virus. Arch. f. die Gesamte Virusforsch. 25(1):58-64.
- METSelaar, D. 1968. Virology and public health. East Afr. Med. J. 45(9):597-604. [Includes mosquitoes.]
- MURPHY, F. A., HARRISON, A. K. and TZIANABOS, T. 1968. Electron microscopic observations of mouse brain infected with Bunyamwera group arboviruses. J. Virol. 2(11):1315-1325.
- MYERS, R. M. and COAUTHORS. 1968. Recovery of dengue type 3 virus from human serum and *Aedes aegypti* in South India. Indian J. Med. Res. 56(6):781-787.
- OZAWA, Y. and BAHRAMI, S. 1968. Effects of freezing on African horse-sickness virus. Arch. f. die Gesamte Virusforsch. 25(2):201-210.
- PAUL, S. D. 1968. Comparative susceptibility of primary cultures from renal epithelial cells of *Macaca radiata* and BS-C-1 cell line for the isolation of dengue viruses. Indian J. Med. Res. 56(2):142-149.
- PRICE, W. H. 1968. Sequential immunization as a vaccination procedure against dengue viruses. Amer. J. Epidemiol. 88(3):392-397.
- ROCHE, S. and ROBIN, Y. 1967. Infections humaines par le virus chikungunya à Rufisque (Sénégal) Octobre-Novembre 1966. Soc. Méd. Afr. Noire Bul. 12(3):490-496.
- SAGNET, H. and COAUTHORS. 1968. La maladie de Burkitt. Un syndrome tumoral de l'enfant en Afrique tropicale. Méd. Trop. (Marseille) 28(3):283-300. [Possibly mosquito-borne.]
- SEHGAL, P. N. and COAUTHORS. 1967. A study of an outbreak of dengue epidemic in Jabalpur, Madhya Pradesh. Indian Soc. Malaria and other Commun. Dis. Bul. 4(2):91-108.
- ŠIMKOVÁ, A. and DANĚŠ, L. 1968. Virological and clinical observations on chimpanzees exposed to Tahaña virus aerosol. Acta Virol. 12(5):474.
- ŠIMKOVÁ, A. and WALLNEROVÁ, Z. 1968. Tahaña virus distribution in viaricemic hamster blood. Acta Virol. 12(5):397-402.
- SIMPSON, D. I. H., ZLOTNIC, I. and RUTTER, D. A. 1968. Vervet monkey disease: experimental infection of guinea-pigs and monkeys with the causative agent. Brit. J. Expt. Path. 49(5):458-465. [Possibly mosquito-borne.]
- SINGH, K. R. P. and PAVRI, K. M. 1967. Experimental studies with chikungunya virus in *Aedes aegypti* and *Aedes albopictus*. Acta Virol. 11(6):517-526.
- SPENCE, L. and DOWNS, W. G. 1968. Virological investigations in Guyana, 1956-1966. West Indian Med. J. 17(2):83-89.
- SRIHONGSE, S. and SHOPE, R. E. 1968. The Patois group of arboviruses. Acta Virol. 12(5):453-456.

SUDIA, W. D., COLEMAN, P. H. and CHAMBERLAIN, R. W. 1969. Experimental vector-host studies with Tensaw virus, a newly recognized member of the Bunyamwera arbovirus group. Amer. J. Trop. Med. and Hyg. 18(1):98-102.

VALLET, G. 1968. Les arboviroses. Evolution Med. 12(1):23-26. Engl. Sum.

VIRUS RESEARCH CENTRE (Poona). 1968. Annual report 1966, 180 pp.

YUNKER, C. E. and CORY, J. 1968. Infection of Grace's *Antheraea* cells with arboviruses. Amer. J. Trop. Med. and Hyg. 17(6):889-893.

ENCEPHALITIS

AALESTAD, H. G., HOFFMAN, E. J. and BROWN, A. 1968. Fractionation of eastern equine encephalitis virus by density gradient centrifugation in CsCl. J. Virology 2(10):972-978.

CAREY, D. M. and MYERS, R. M. 1968. Japanese encephalitis studies in Vellore, South India. Part III. Neutralizing activity of human survey sera. Indian J. Med. Res. 56(9):1330-1339.

_____ and PAVRI, K. M. 1968. Japanese encephalitis studies in Vellore, South India. Part II. Antibody response of patients. Indian J. Med. Res. 59(9):1319-1329.

CAREY, D. E., REUBEN, R. and MYERS, R. M. 1968. Japanese encephalitis studies in Vellore, South India. Part I. Virus isolation from mosquitoes. Indian J. Med. Res. 56(9):1309-1318.

_____, _____ and GEORGE, S. 1968. Japanese encephalitis studies in Vellore, South India. Part IV. Search for virological and serological evidence of infection in animals other than man. Indian J. Med. Res. 56(9):1340-1352.

DOI, R., OYA, A. and TELFORD, S. R., JR. 1968. A preliminary report on infection of the lizard, *Takydromus tachydromoides*, with Japanese encephalitis virus. Jap. J. Med. Sci. and Biol. 21(3):205-207.

HASEGAWA, T. and YAMAMOTO, H. 1968. Isolation of Japanese encephalitis virus from mosquitoes by means of the plaque formation method with chick embryo fibroblast monolayers. Jap. J. Med. Sci. and Biol. 21(3):209-213.

HOMMA, R. 1968. Reaction of Japanese encephalitis virus with mannan. Acta Virol. 12(5):385-396.

HOTTA, S., OHNO, M., MIZOGUTI, H. and MUSASHI, H. 1967. Propagation and cytopathic effects of Japanese encephalitis and related viruses in mammalian cerebellar tissue cultures. Kobe J. Med. Sciences 13(1):11-21.

ISHII, K., MATSUNAGA, Y. and KONO, R. 1968. Immunoglobulins produced in response to Japanese encephalitis virus infections of man. J. Immunol. 101(4):770-775.

MATSUO, S. and COAUTHORS. 1967. Survey of occurrence of Japanese encephalitis in Nagasaki Prefecture during the year 1966. Trop. Med. (Nagasaki) 9(2):89-96. In Jap., Engl. Sum.

MATTHEWS, C. G., CHUN, R. W. M., GRABOW, J. D. and THOMPSON, W. H. 1968. Psychological sequelae in children following California arbo-

virus encephalitis. Neurology 18(10):1023-1030.

MIDDLEBROOKS, B. L., ALLEN, R. and SULKIN, S. E. 1969. Studies of arthropod-borne virus infections in Chiroptera, V. Characteristics of lines of Japanese B encephalitis virus developed by serial passage in big brown bats (*Eptesicus f. fuscus*) maintained at different environmental temperatures. Amer. J. Trop. Med. and Hyg. 18(1):115-122.

MORGANTE, O., VANCE, H. N., SHEMANCHUK, J. A. and WINDSOR, R. 1968. Epizootic of western encephalomyelitis virus infection in equines in Alberta in 1965. Canad. J. Compar. Med. 32(2):403-408.

NOVOKHATSKY, A. S. and MISHIN, L. N. 1968. Reproduction of Venezuelan equine encephalomyelitis virus in chick embryo fibroblast suspension. Voprosy Virusologii No. 5:566-574. In Rus., Engl. Sum.

ODA, K. 1968. Isolation of Japanese encephalitis virus from natural sources by means of plaque technique in chick embryo monolayer cell cultures. Kobe J. Med. Sciences 14(2):107-114.

POLLEY, J. R. and GUERIN, M. M. 1968. Preparation of a stable non-infective western equine encephalomyelitis virus antigen from allantoic fluid. Canad. J. Microbiol. 14(10):1017-1020.

SCHWAB, P. M. 1968. Economic cost of St. Louis encephalitis epidemic in Dallas, Texas, 1966. U. S. Pub. Health Rpts. 83(10):860-866.

SREEVALSAN, T. and ALLEN, P. T. 1968. Replication of western equine encephalomyelitis virus. II. Cytoplasmic structure involved in the synthesis and development of the virions. J. Virology 2(10):1038-1046.

SUAREZ, O. M. and BERGOLD, G. H. 1968. Investigations of an outbreak of Venezuelan equine encephalitis in towns of eastern Venezuela. Amer. J. Trop. Med. and Hyg. 17(6):875-880.

TIKASINGH, E. S., AITKEN, T. H. G., BUTCHER, L. and GONZALEZ, O. 1968. Epidemiologic investigations relating to a case of eastern equine encephalitis in a Trinidadian horse. West Indian Med. J. 17(2):90-95.

WHITNEY, E. and COAUTHORS. 1969. California virus in New York State. Isolation and characterization of California encephalitis virus complex from *Aedes cinereus*. Amer. J. Trop. Med. and Hyg. 18(1):123-131.

ZARATE, M. L. and SCHERER, W. F. 1968. Contact-spread of Venezuelan equine encephalomyelitis virus among cotton rats via urine or feces and the naso- or oropharynx. A possible transmission cycle in nature. Amer. J. Trop. Med. and Hyg. 17(6):894-899.

FILARIASIS

BAGAI, R. C., SUBRAHMANYAM, D. and SINGH, V. B. 1968. Immunochemical studies with filarial antigens. Indian J. Med. Res. 56(7):1064-1072.

BASU, P. C., RAGHAVAN, N. G. S., BEDI, K. M. S. and SINGH, B. 1967. Filariasis in India—facts and figures Assam. Indian Soc. Malaria and other Commun. Dis. Bul. 4(2):155-156.

- CHOWDHURY, A. B. and SCHILLER, E. L. 1968. A survey of paracitic infections in a rural community near Calcutta. *Amer. J. Epidemiol.* 87 (2):299-312. [Two cases with *Wuchereria bancrofti*.]
- COURMES, E., FAURAN, P. and LESPINASSE, J. J. 1968. Contribution à l'étude des filarioses humaines dans le département de la Guadeloupe. *Soc. de Path. Exot. Bul.* 61(2):234-245. Engl. Sum.
- FAN, P. C. and HSU, J. 1968. Filariasis in the Asia, Africa and western Pacific region based partly on data reported at WHO Seminar in Manila November 22-December 1, 1965. *Chinese Med. J. (Peking)* 15(1):54-72. In Engl.
- HAIRSTON, N. G. and DE MEILLON, B. 1968. On the inefficiency of transmission of *Wuchereria bancrofti* from mosquito to human host. *WHO Bul.* 38(6):935-941.
- KEEGAN, H. L., FITZGERALD, C. M., MCCRARY, T. L. and DOYLE, M. D. 1968. Studies on dog heartworm in south Texas. *Texas Rpts. Biol. and Med.* 26(3):321-330.
- LENCZNER, M. M., CULLEN, J. B. and ROBSON, C. J. 1968. Inflammatory nodule of the right spermatic cord due to *Filaria bancrofti*. *Canad. Med. Assoc. J.* 99(15):765-766.
- MILLER, M. J. 1968. *Wuchereria bancrofti*. *Canad. Med. Assoc. J.* 99(24):1208
- NAIR, C. P. and BHATNAGAR, V. N. 1968. Filariasis in Kerala, South India. Filarial survey of Trichur town. *Antiseptic* 65(4):235-241.
- PACHECO, G. and ORIHUEL, T. C. 1968. Relationship between detectable microfilaremia and total population of microfilariae in monkeys infected with *Dirofilaria corynodes*. *J. Parasitol.* 54(6):1234-1235. [*D. immitis* also discussed.]
- PUTATUNDA, J. N. and SINGH, N. 1967. A short note on filariasis in Village Gaur, District Varanasi (Uttar Pradesh—India). *Indian Soc. Malaria and other Commun. Dis. Bul.* 4(2):147-152.
- RAGHAVAN, N. G. S., BASU, P. C. and PUTATUNDA, J. N. 1968. A pilot study on the use of diethylcarbamazine incorporated in common salt in a village endemic for *W. bancrofti* filariasis (Parbatpur village, Varanasi District, Uttar Pradesh, India). *WHO/FIL/68.82*, 8 pp.
- RAMAGHANDRAN, C. P. and ZAINI, M. A. 1967. Studies on the transmission of sub-periodic *Brugia malayi* by *Aedes (Finlaya) togoi* in the laboratory. I. The intake and migration of microfilariae. *Med. J. Malaya* 22(2):136-144.
- and —. 1968. Studies on the transmission of sub-periodic *Brugia malayi* by *Aedes (Finlaya) togoi* in the laboratory. II. The development of the parasite to the infective form; the relationship between concentration of microfilariae in the vertebrate host and infection in the mosquitoes. *Med. J. Malaya* 22(3):198-203.
- RESTANI, R. 1968. Ricerche sulla resistenza di microfilarie di *Dirofilaria repens* a diverse temperature. *Parassitologia* 10(1):75-84. Engl. Sum.
- ROY-SMITH, F. and CARLISLE, C. H. 1968. A field study of chemical prophylaxis against the developing stages of *Dirofilaria immitis* in the dog. *Austral. Vet. J.* 44(11):508-509.
- SINGH, D., MAMMEN, M. L. and DAS, M. 1967. Effect of temperature on the extrinsic incubation of *Dirofilaria immitis* in *Aedes aegypti*. *Indian Soc. Malaria and other Commun. Dis. Bul.* 4(2):139-142.
- THRASHER, J. P., GOULD, K. G., LYNCH, M. J. and HARRIS, C. C. 1968. Filarial infections of dogs in Atlanta, Georgia. *Amer. Vet. Med. Assoc. J.* 153(8):1059-1063.
- WITENBERG, G. G. 1968. Helminth fauna in man and domestic animals in Israel. *Israel J. Med. Sciences* 4(5):1069-1073. [Disappearance of filariasis in immigrants from India.]
- See also Nnochiiri and Toda in Malaria Section.

MALARIA

- BLACK, R. H. 1968. Measures taken in Australia against malaria reintroduction. *WHO/Mal/68.666*, 4 pp.
- CAHILL, K. M. 1967. Malaria in New York City. *N. Y. State J. Med.* 67(19):2601-2603.
- CHOJNACKI, R. E., BRAZINSKY, J. H. and BARRETT, O., Jr. 1968. Transfusion-introduced falciparum malaria. *New England J. Med.* 279(18):984-985.
- DESHMUKH, V. V. and SHARMA, K. D. 1968. Deficiency of erythrocyte glucose-6-phosphate dehydrogenase and sickle cell trait: a survey of Mahar students at Aurangabad, Maharashtra. *Indian J. Med. Res.* 56(6):821-825. [In connection with malaria.]
- GLATT, W. and JARROLD, T. 1968. Malaria in Vietnam veterans. *Postgrad. Med.* 44(4):80-83.
- GOLDSTEIN, E. 1968. A clinical study of falciparum and vivax malaria in Vietnam servicemen. *Military Med.* 133(12):991-996.
- JOHNSON, D. R. 1967. Malaria: Asia. *In Infectious diseases their evolution and eradication*. Edited by A. Cockburn. pp. 292-308, Springfield, Illinois.
- KLAINER, A. S., CLYDE, D. F., BARTELLONI, P. J. and BEISEL, W. R. 1968. Serum glycoproteins in experimentally induced malaria in man. *J. Lab. and Clin. Med.* 72(5):794-802.
- KUHLow, F. 1968. Probleme der Bekämpfung von Malaria-Überträgern am Persischen Golf. *Z. f. Parasitenkunde* 31(1):16.
- LANDAU, I. and CHABAUD, A. G. 1968. Schizogonie hépatique secondaire dans le paludisme spontané des rongeurs. *Acad. Sci. Compt. Rend. (Paris) Ser. D.* 266(17):1730-1733.
- LOBEL, H. O., CARMICHAEL, G. T. and GORHAM, J. R. 1968. Study of urban malaria in Karachi, West Pakistan. 55 pp. [Malaria Erad. Prog., USPHS, Atlanta.]
- MACDONALD, G., CUELLAR, C. B. and FOLL, C. V. 1968. The dynamics of malaria. *WHO Bul.* 38(5):743-755.
- MANWELL, R. D. and STONE, W. B. 1968.

Fever and blood sugar in pinottii malaria of pigeons. *J. Protozool.* 15(3):433-437.

NNOCHIRI, E. 1968. Parasitic disease and urbanization in a developing community. 204 pp., London, and Oxford. [Includes malaria and filariasis.]

PIRUMOV, KH. N., TSATURYAN, A. T., PETROSYAN, N. A. and ZAKARYAN, G. G. 1968. Cases of malaria in the Armenian SSR in 1961-1967. *Med. Parazit. i Parazit. Bolezni* 37(5):559-564. In Russ., Engl. Sum.

ROGERS, W. A., JR., FRIED, J. A. and KAGAN, I. G. 1968. A modified, indirect microhemagglutination test for malaria. *Amer. J. Trop. Med. and Hyg.* 17(6):804-809.

SANDOSHAM, A. A. 1967. Recent researches on malaria at the Institute for Medical Research, Kuala Lumpur. *Med. J. Malaya* 22(2):145-160.

THAKUR, M. P. 1968. Malaria in Surrey. Infection acquired in Kenya. *Practitioner* 201(1205):794-795.

TODA, Y. 1967. Epidemiological observations of diseases and medical situation in Indonesia. *Kobe J. Med. Sciences* 13(3):129-137. [Includes malaria and filariasis.]

VANDERBERG, J. P., NUSSENZWEIG, R. S. and MOST, H. 1968. Further studies on the *Plasmodium berghei*-*Anopheles stephensi*-rodent system of mammalian malaria. *J. Parasitol.* 54(5):1009-1016.

WILLIAMS, C. 1968. Malaria and population explosion. *Lancet* 7573:868-869.

WU, C. L. 1967. A malarial parasite of the bat in Taiwan. *Trop. Med. (Nagasaki)* 9(1):65-69.

Malaria—Eradication

FONTAINE, R. E. 1968. Some recent developments and trends in vector control aspects of malaria eradication. *Mosquito News* 28(4):491-495.

GIGLIOLI, G. 1967. Recent developments in the malaria eradication campaign in Guyana. *West Indian Med. J.* 16(3):177-178.

GUY, Y. and GASSABI, R. 1967. Les perspectives de l'eradication du paludisme en Algérie. *Inst. Pasteur d'Algérie Arch.* 45:72-88. Engl. Sum.

MASON, J. 1968. Development of the Haiti Malaria Eradication Programme. *WHO/Mal/68.665*, 18 pp.

Malaria—Immunology

JERUSALEM, C. 1968. Active immunization against malaria (*Plasmodium berghei*). II. Immunization by inducing controlled low parasitemia and with small amounts of non-viable antigen. *Z. f. Tropenmed. u. Parasitol.* 19(4):401-410. In Engl.

VANDERBERG, J. P., NUSSENZWEIG, R. S., MOST, H. and ORTON, C. G. 1968. Protective immunity produced by the injection of X-irradiated sporozoites of *Plasmodium berghei*. II. Effects of radiation on sporozoites. *J. Parasitol.* 54(6):1174-1180.

Malaria—Plasmodia

AIKAWA, M. and BEAUDOIN, R. L. 1968. Studies on nuclear division of a malarial parasite under pyrimethamine treatment. *J. Cell Biol.* 39(3):749-754. [*Plasmodium gallinaceum*.]

AIKAWA, M. and JORDAN, H. B. 1968. Fine structure of a reptilian malaria parasite. *J. Parasitol.* 54(5):1023-1033.

BÜNGENER, W. 1968. Einbau von exogenem Adenosin und Hypoxanthin in die Nukleisäuren von Malariaparasiten (*Plasmodium berghei* und *Plasmodium vinckei*). *Z. f. Parasitenkunde* 31(1):1.

———. 1968. Synchronisierte *Plasmodium vinckei*-Populationen. *Z. f. Tropenmed. u. Parasitol.* 19(4):411-414. Engl. Sum.

CENEDELLA, R. J., ROSEN, H., ANGEL, C. R. and SAXE, L. H. 1968. Free amino-acid production *in vitro* by *Plasmodium berghei*. *Amer. J. Trop. Med. and Hyg.* 17(6):800-803.

COLLINS, W. E. and COAUTHORS. 1968. Monkey to man transmission of *Plasmodium falciparum* by *Anopheles freeborni* mosquitoes. *J. Parasitol.* 54(6):1166-1170.

CORRADETTI, A. and SCANGA, M. 1968. Note sul ciclo sporogonico di *Plasmodium (Giovannolai) polare* in *Culiseta longiareolata*. *Parasitologia* 10(1):1-9. Engl. Sum.

DESOWITZ, R. S. and LANGER, B. W., JR. 1968. Hypocholesterolemia in rodent malaria (*Plasmodium berghei*). *J. Parasitol.* 54(5):1006-1008.

ELING, W. 1968. Isolierung von DNS aus *Pl. berghei*. *Z. f. Parasitenkunde* 31(1):13.

FLEISCHMAN, R. W., SQUIRE, R. A., SLADEN, W. J. L. and MELBY, E. C. JR. 1968. Malaria (*Plasmodium elongatum*) in captive African penguins (*Spheniscus demersus*). *Amer. Vet. Med. Assoc. J.* 153(7):928-935.

GARNHAM, P. C. C. 1968. Recent researches on rodent malaria parasites. *Israel J. Med. Sciences* 4(5):1057-1086.

HERMS, V., BAUMGART, E. and KRETSCHMAR, W. 1968. Der Einfluss der Adrenalektomie und Cortisonbehandlung auf den Verlauf der Malaria (*Plasmodium berghei*) in NMRI-Mäusen. *Z. f. Tropenmed. u. Parasitol.* 19(4):389-400. Engl. Sum.

JADIN, J. 1967. Du rôle des bactéries dans le tube digestif des insectes vecteurs des Plasmodiidae et des Trypanosomidae. *Soc. Belg. Méd. Trop. Ann.* 47(4):331-342.

JERUSALEM, C. 1968. Beziehungen zwischen DNS-Synthese von *P. berghei* und RNS-Gehalt der Wirtszelle. *Z. f. Parasitenkunde* 31(1):1.

KIELMANN, A. and WEISS, N. 1968. *Plasmodium gallinaceum* as antigen in immunofluorescence antibody studies. *Acta Tropica* 25(2):185-187.

KILLICK-KENDRICK, R., SHUTE, G. T. and LAMBO, A. O. 1968. Malaria parasites of *Thamnomys rutilans* (Rodentia, Muridae) in Nigeria. *WHO Bul.* 38(5):822-824.

KREIER, J. P. and LESTE, J. 1968. Parasitemia

and erythrocyte destruction in *Plasmodium berghei*-infected rats. II. Effect of infected host globulin. Expt. Parasitol. 23(2):198-204.

LIEN, J. C. and CROSS, J. H. 1968. *Plasmodium (Vinckeia) watteni* sp. n. from the Formosan flying squirrel, *Petaurista petaurista grandis*. J. Parasitol. 54(6):1171-1174.

MARUBINI, E., SOLDATI, M. and GHIONE, M. 1968. A statistical evaluation of synergism of folic acid antagonists on experimental *Plasmodium berghei* mouse infection. Chemotherapy 13(4):232-241.

MASON, R. J., WARREN, J., BUCY, M. L. and OWENS, R. E. 1968. Reduction of tetrazolium salts by malarial parasites. Expt. Parasitol. 23(2):212-220.

MATSUMOTO, T., SOLOWAY, H. B., McCLAIN, J. E. and MIYTA, M. 1968. Microcirculation in *P. knowlesi* malaria: I. Effects of alpha adrenergic blockade. Military Med. 133(10):819-822.

MILLER, L. H. and COAUTHORS. 1968. *Plasmodium berghei*: renal function and pathology in mice. Expt. Parasitol. 23(2):134-142.

SADUN, E. H. and GORE, R. W. 1968. Mass diagnostic test using *Plasmodium falciparum* and chimpanzee erythrocyte lysate. Expt. Parasitol. 23(2):277-285.

SCALZI, H. A. and BAHR, G. F. 1968. An electron microscopic examination of erythrocytic stages of two rodent malarial parasites, *Plasmodium chabaudi* and *Plasmodium vinckei*. J. Ultrastruct. Res. 24(1/2):116-133.

WALSH, C. J. and SHERMAN, I. W. 1968. Isolation, characterization and synthesis of DNA from a malaria parasite. J. Protozool. 15(3):503-508.

WALTER, R. D. 1968. Untersuchungen über die Entwicklung freier, erythrozytärer Schizonten bei Infektionen mit *Plasmodium berghei* und *Plasmodium chabaudi*. Z. f. Tropenmed. u. Parasitol. 19(4):415-426. Engl. Sum.

WEATHERSBY, A. B. and McCALL, J. W. 1968. The development of *Plasmodium gallinaceum* Brumpt in the hemocoels of refractory *Culex pipiens pipiens* Linn. and susceptible *Aedes aegypti* (Linn.). J. Parasitol. 54(5):1017-1022.

WORLD HEALTH ORGANIZATION. 1968. *Plasmodium* spp. from birds: a request for material. WHO/Mal/68.668, 2 pp.

Malaria—Simian

DEANE, L. M. 1967. Monkey malaria in Brazil. A summary of studies performed in 1964-1966. Rev. Brasil. de Biol. 27(3):213-228. Engl. Sum.

Malaria—Therapeutics and Antimalarials

BERBERIAN, D. A. and SLIGHTER, R. G., JR. 1968. The schizonticidal activity of hydroxynaphthoquinones against *Plasmodium berghei* infections in mice. J. Parasitol. 54(5):999-1005.

_____, _____, and FREELE, H. W. 1968. Causal prophylactic effect of menoctone (a new hydroxynaphthoquinone) against sporozoite-in-

duced *Plasmodium berghei* infection in mice. J. Parasitol. 54(6):1181-1189.

BRUCE-CHWATT, L. J. 1968. Chloroquine blindness? Lancet 7576:1039.

COHEN, R. J., SACHS, J. R., WICKER, D. J. and CONRAD, M. E. 1968. Methemoglobinemia provoked by malarial chemoprophylaxis in Vietnam. New England J. Med. 279(21):1127-1131.

JAHIEL, R. I., NUSSENZWEIG, R. S., VANDERBERG, J. and VILČEK, J. 1968. Anti-malarial effect of interferon inducers at different stages of development of *Plasmodium berghei* in the mouse. Nature (London) 220(5168):710-711.

LAFATX, C., REV. M., DIOP, MAR, I. and NOUHOYAI, A. 1967. Essai de traitement curatif du paludisme pour un nouvel antipaludique de synthèse, le 16-126RP. Soc. Méd. Afr. Noire Bul. 12(3):546-551. Engl. Sum.

LONG, J. 1968. Chloroquine blindness? Lancet 7573:875.

LOVETT, W. D. 1968. Chloroquine blindness? Lancet 7575:972.

MODELL, W. 1968. Malaria and victory in Vietnam. Science 162(3860):1346-1352.

SAEBI, A., MOTABAR, M., GHASSEDDIN, M. and ROUHAN, F. 1968. A medicated salt project in the Kazeroun area, Iran. (Second report: 1965-1967). WHO/Mal/68.669, 7 pp.

SHEAGREN, J. N. 1968. Antimalarial effect of B.663 in mice infected with *Plasmodium berghei*. J. Parasitol. 54(6):1250-1251.

VIALA, A., CANO, J. P., GOUZO, F. and CATALIN, J. 1968. A fatal case of chloroquine intoxication. Practical toxicological diagnosis from 3 ml of urine. Ann. Biol. Clinique 26 (7/9):979-984. In Fr., Engl. Sum.

Malaria—Antimalarials—Resistance

COMER, R. D. and COAUTHORS. 1968. Chloroquine resistance in *Plasmodium falciparum* malaria on the Pacific Coast of Colombia. Amer. J. Trop. Med. and Hyg. 17(6):795-799.

KELLETT, R. J., COWAN, G. O. and PARRY, E. S. 1968. Chloroquine-resistant *Plasmodium falciparum* malaria in the United Kingdom. Lancet 7575:946-948.

MAHONEY, L. E. 1968. Chloroquine resistant *falciparum* malaria. Lancet 7578:1139.

McKELVEY, T. P. H. and COAUTHORS. 1968. Chloroquine-resistant malaria in West Malaysia. Brit. Med. J. 5632:703-704.

YOUNG, W. C. and AVIADO, D. M. 1968. Pathologic physiology and chemotherapy of *Plasmodium berghei*. IV. Influence of chloroquine on oxygen uptake of red blood cells infected with sensitive or resistant strains. Expt. Parasitol. 23(2):143-150.

Malaria—Vectors

OMAR, M. S. 1968. Vergleichende Beobachtungen über die Entwicklung von *Plasmodium cynomolgi bastianellii* in *Anopheles stephensi* und *Anopheles albimanus*. Z. f. Tropenmed. u. Parasitol. 19(4):370-389. Engl. Sum.

YELLOW FEVER

ANDRAL, L. and COAUTHORS. 1968. Etudes sur la fièvre jaune en Ethiopie. 3. Etude éserologique et virologique de la faune sylvatique. WHO Bul. 38(6):855-861. Engl. Sum.

CORNET, L. 1967. Les vecteurs potentiels du virus amaril en République du Sénégal. Méd. d'Afr. Noire 14(8/9):423-425.

NERI, P., SÉRIÉ, C., ANDRAL, L. and POIRIER, A. 1968. Etudes sur la fièvre jaune en Ethiopie. 4. Recherches entomologiques à la station de Manéra. WHO Bul. 38(6):863-872. Engl. Sum.

SÉRIÉ, C. and COAUTHORS. 1968. Etudes sur la fièvre jaune en Ethiopie 1. Introduction symptomatologie clinique amarile. 2. Enquête sérologique sur la population humaine. 5. Isolement de souches virales de vecteurs arthropodes. 6. Etude épidémiologique. WHO Bul. 38(6):835-841; 843-854; 873-877; 879-884. Engl. Sum. for all parts.

SPECTOR, S. and TAURASO, N. M. 1968. Yellow fever virus. I. Development and evaluation of a plaque neutralization test. Appl. Microbiol. 16(11):1770-1775.

LIGHT AND OTHER TRAP STUDIES

EASTON, E. R., PRICE, M. A. and GRAHAM, O. H. 1968. The collection of biting flies in west Texas with Malaise and animal-baited traps. Mosquito News 28(3):465-469. [Includes mosquitoes.]

OLSON, J. K., ELBEL, R. E. and SMART, K. L. 1968. Mosquito collections by CDC miniature light traps and livestock-baited stable traps at Callao, Utah. Mosquito News 28(4):512-516.

INTERCEPTIONS

PIPPIN, W. F., THOMPSON, S. and WILSON, R. 1968. The interception of living larvae of *Aedes aegypti* (L.) and *Culex cinereus* in aircraft.

Mosquito News 28(4):646. [In Kansas from Liberia.]

LITERATURE REFERENCES AND REVIEWS

DUKHANINA, N. N. 1968. Soviet literature on problems of medical parasitology and parasitic diseases. Med. Parazit. i Parazit. Bolezni 37(5):623-632. In Rus. [Includes references to mosquitoes.]

SOLLERS-RIEDEL, H. 1968. Literature references to mosquitoes and mosquito-borne diseases. Mosquito News 28(4):664-677.

BIOGRAPHY AND HISTORY

MONNEROT-DUMAINE, —. 1968. Le problème sanitaire pendant la construction du canal de Panama. Presse Méd. 76(21):1030. [Yellow fever.]

SUBJECTS NOT COVERED BY OTHER HEADINGS

HAGMANN, L. E. and JOBBINS, D. M. 1968. The story of the mosquito and its control. N. J. Agr. Expt. Sta. Cir. 585-B, 15 pp.

HORSFALL, W. R., VOORHEES, F. R., CUPP, E. W. and FOWLER, H. W. 1969. [Feature photograph—moment of hatching of *Aedes vexans*.] Ent. Soc. Amer. Ann. 62(1):253.

HOWDEN, H. F. 1969. Effects of the Pleistocene on North American insects. Ann. Rev. Ent. (Palo Alto) 14:39-56. [Includes note about *Aedes cinereus* on p. 51.]

ERRATA

In Mosquito News 27(4):540 in Anatomy, Morphology and Physiology Section change reference of Sharma and Rai to read Canad. Ent. 99; 28(2):294 in Anatomy, Morphology and Physiology Section change pages for Spielman, Leahy and Skaff to read 404-412.