

V O L U M E 8

Advances in Disease Vector Research

Edited by
Kerry F. Harris



Springer-Verlag

Advances In Disease Vector Research

Kerry F. Harris



Advances In Disease Vector Research:

Advances in Disease Vector Research ,2012-12-06 This series explores how vectors carriers of disease agents such as insects acquire carry and subsequently transmit pathogens to hosts It covers the spectrum of vectors including carriers of plant pathogens as well as medically related pathogens The Chapters in Volume 7 include 1 K Gibb J W Randles Transmission of velvet tobacco mottle virus and related viruses by the mirid *Cyrtopeltis nicotianae* 2 N Carter R Harrington Factors influencing aphid population dynamics and behavior and the consequences for virus spread 3 R H Bagnall Cyclic epidemics of aphid borne potato viruses in Northern seed potato growing areas 4 C J Andrews R C Sinha Interactions between barley yellow dwarf virus infection and winter stress tolerance in cereals 5 J R DeLoach G Spates Artificial diets for blood feeding insects a review 6 I Maudlin Transmission of African trypanosomiasis interactions among Tsetse immune system symbionts and parasites 7 C Chastel I Humphrey Smith Mosquito spiroplasmas The first four chapters cover topics in plant virus transmission by insects The final three chapters focus on human and animal disease associations with bollid feeding flies

Advances in Disease Vector Research ,2012-12-06 Entomology plant pathology and virology are a few of the disciplines covered by this well reviewed series It also covers the spectrum of vectors from mosquitos and leafhoppers to nematodes and pathogens from viruses to mycoplasmas to protozoa Articles deal with the emerging science of vector ecology and consider both biotic and abiotic environmental influences on disease transmission As a form to present current thinking in this field the series is an important resource for researchers and students involved in understanding and overcoming the many vector borne diseases of plants animals and humans

Advances in Disease Vector Research ,1991-05-28 Entomology plant pathology and virology are a few of the disciplines covered by this well reviewed series It also covers the spectrum of vectors from mosquitos and leafhoppers to nematodes and pathogens from viruses to mycoplasmas to protozoa Articles deal with the emerging science of vector ecology and consider both biotic and abiotic environmental influences on disease transmission As a form to present current thinking in this field the series is an important resource for researchers and students involved in understanding and overcoming the many vector borne diseases of plants animals and humans

Advances in Disease Vector Research T V Barrett,D T Brown,T R Burkot,1991-05-28 Entomology plant pathology and virology are a few of the disciplines covered by this well reviewed series It also covers the spectrum of vectors from mosquitos and leafhoppers to nematodes and pathogens from viruses to mycoplasmas to protozoa Articles deal with the emerging science of vector ecology and consider both biotic and abiotic environmental influences on disease transmission As a form to present current thinking in this field the series is an important resource for researchers and students involved in understanding and overcoming the many vector borne diseases of plants animals and humans

Advances in Disease Vector Research ,2012-12-06 Volume 10 of *Advances in Disease Vector Research* consists of seven chapters on vectors that affect human or animal health and six chapters on plant pathogens and their vectors In Chapter 1 Yasuo Chinzei and DeMar Taylor discuss hormonal regulation of

vitellogenesis in ticks Many blood sucking insects and ticks transmit pathogens by engorgement which induces vitellogenesis and oviposition in adult animals To investigate the pathogen transmission mechanism in vector animals information on the host physiological and endocrinological conditions after engorgement is useful and important because pathogen development or proliferation occurs in the vector hosts at the same time as the host reproduction Chinzei and Taylor have shown that in ticks juvenile hormone JH is not involved in the endocrinological processes inducing vitellogenin biosynthesis Synganglion tick brain factor s vitellogenesis inducing factor VIF is more important to initiate vitellogenesis after engorgement and ecdysteroids are also related to induction of vitellogenin synthesis In their chapter based mainly on their own experimental data the authors discuss the characterization of main yolk protein vitellogenin Vg biosynthesis and processing in the fat body and hormonal regulation of Vg synthesis in tick systems including ixodid and argasid ticks *Advances in Disease Vector Research* ,2012-12-06 Volume 9 in this series consists of four chapters on vectors that affect human or animal health and six chapters on plant pathogens and their vectors In Chapter 1 Alex S Raikhel discusses vitellogenesis in mosquitoes the cornerstone of the reproductive cycle involving massive production of yolk precursors by the fat body and their accumulation in developing oocytes In anautogeneuous mosquitoes vitellogenesis is dependent on the availability of a blood meal and as a consequence is linked to transmission of pathogens Therefore elucidation of mechanisms governing the mosquito vitellogenesis is critical for the successful development of novel strategies in vector and disease management Previous reviews on mosquito vitellogenesis have dealt predominantly with hormonal control The goal of this review however is to summarize significant progress which has been achieved in understanding mosquito vitellogenesis at the cellular biochemical and molecular levels It is with these disciplines that we expect to fully understand the mechanisms governing this key process in mosquito reproduction **Advances in Disease Vector Research 5** Kerry F. Harris,1988-09-07 With contributions by numerous experts *Advances in Disease Vector Research* J. J. Cho,D. M. Custer,T. L. German,1992-10-22 *Advances in Disease-Vector Research* Kerry F. Harris,1989-12 **Advances in Disease Vector Research** K. F. Harris,1991 *Advances in Disease Vector Research* ,2012-12-06 I think the reader will agree that we have attained a good balance in Volume 6 between human or animal host and plant host related topics from outstanding research scientists In Chapter 1 Frank Collins Susan Paskewitz and Victoria Finnerty explore the potential of recombinant DNA technology to distinguish individual species and to establish phylogenetic relationships among member species in the *Anopheles gambiae* species complex which includes the principal malaria vectors Currently relatively little is known about these morphologically identical species that are sympatric over most of their range but are not always equally involved in malaria transmission With respect to individual species identification the researchers have thus far described two DNA fragments derived from the ribosomal DNA intergenic spacer region that reliably distinguish five species in the complex by means of an RFLP visualized on a Southern blot They have also described other species specific fragments derived from a ribosomal DNA intron that could

form the basis for a rapid dot blot assay With respect to the phylogenetic relationships among member species in the complex Collins Paskewitz and Finnerty focus on a comparison at the level of restriction site mapping and Southern analysis of the rDNA intergenic spacer regions As expected the two spacer regions near the coding region junctions are well conserved among the species whereas the central regions tend to be highly variable among member species in the complex

Advances in Disease Vector Research (majalah) Current Topics in Vector Research ,1991 **Advances in Disease Vector Research 3** D. J. Gubler,C. Hiruki,B. H. Kay,1987-04-03 *Current Topics in Vector Research* ,2012-12-06 Current Topics in Vector Research is based on the premise that to understand the whole one must first understand the component parts and how they interact Here in Volume 4 as well as in future volumes vector pathogen and host will be treated both individually and as integral parts of multifaceted transmission systems It is our intention to present up to date coherent syntheses of the latest findings in vector research suggest promising frontiers for future research and call attention to possible practical applications of our present understandings of pathogen vector host interactions To realize our goals we invite world renowned veteran scientists as well as neophytes to report on their individual areas of expertise Where appropriate authors are encouraged to draw conclusions and propose hypotheses that stimulate additional thinking and research or otherwise further our understanding of vector transmission cycles and how such cycles might be interrupted It is our hope that readers will agree that we are serving these objectives and creating a milieu for specialists and generalists in vector research to maintain rapport and understanding *Current Catalog* ,1989 First multi year cumulation covers six years 1965-70 Current Topics in Vector Research ,2012-12-06 Vector transmission of pathogens affecting human animal and plant health continues to plague mankind both in industrialized and Third World countries The diseases caused by these pathogens cost billions of dollars annually in medical expenses and lost productivity Some cause widespread of food and fiber producing plants and animals whereas others destruction present direct and immediate threats to human life and further development in Third World countries During the past 15 years or so we have witnessed an explosive increase in interest in how vectors acquire carry and subsequently inoculate disease agents to human animal and plant hosts This interest transcends the boundaries of any discipline and involves researchers from such varied fields as human and veterinary medicine entomology plant pathology virology physiology microbiology parasitology biochemistry molecular biology genetic engineering ultrastructure biophysics biosystematics biogeography ecology behavioral sciences and others Accompanying and perhaps generating this renewed interest is the realization that fundamental knowledge of pathogen vector host interrelationships is a first and necessary step in our quest for efficient safe methods of disease control

Biology of Disease Vectors William H. Marquardt,2004-12-04 *Biology of Disease Vectors* presents a comprehensive and advanced discussion of disease vectors and what the future may hold for their control This edition examines the control of disease vectors through topics such as general biological requirements of vectors epidemiology physiology and molecular

biology genetics principles of control and insecticide resistance Methods of maintaining vectors in the laboratory are also described in detail No other single volume includes both basic information on vectors as well as chapters on cutting edge topics authored by the leading experts in the field The first edition of *Biology of Disease Vectors* was a landmark text and this edition promises to have even more impact as a reference for current thought and techniques in vector biology Current each chapter represents the present state of knowledge in the subject area Authoritative authors include leading researchers in the field Complete provides both independent investigator and the student with a single reference volume which adopts an explicitly evolutionary viewpoint throughout all chapters Useful conceptual frameworks for all subject areas include crucial information needed for application to difficult problems of controlling vector borne diseases *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1989

Medical and Veterinary Entomology Gary R. Mullen, Lance A. Durden, 2018-10-02 The first and second editions of *Medical and Veterinary Entomology* edited by Gary R Mullen and Lance A Durden published in 2002 and 2009 respectively have been highly praised and become widely used as a textbook for classroom instruction This fully revised third edition continues the focus on the diversity of arthropods affecting human and animal health with separate chapters devoted to each of the taxonomic groups of insects and arachnids of medical or veterinary concern including spiders scorpions mites and ticks Each chapter includes sections on taxonomy morphology life history and behavior and ecology with separate sections on those species of public health and veterinary importance Each concludes with approaches to management of pest species and prevention of arthropod borne diseases The third edition provides a comprehensive source for teaching medical and or veterinary entomology at the college and university level targeted particularly at upper level undergraduate and graduate postgraduate programs In addition to its value as a student textbook the volume has appeal to a much broader audience specialists and non specialists alike It provides a key reference for biologists in general entomologists zoologists parasitologists physicians public health personnel veterinarians wildlife biologists vector biologists military entomologists the general public and others seeking a readable authoritative account on this important topic Completely revised and updated edition Includes a distinguished group of 40 nationally and internationally recognized contributors Sixteen new authors in addition to 25 continuing contributors from the first and second editions A new chapter on Arthropod Toxins and Venoms Illustrated with 560 mostly color figures and updated maps depicting the distribution of important arthropod taxa and arthropod borne diseases A significantly expanded and well illustrated chapter on Molecular Tools Used in Medical and Veterinary Entomology Coverage of emerging and newly recognized arthropod concerns including mosquito borne Zika and Chikungunya viruses tick borne Bourbon and Heartland viruses tick borne rickettsioses and anaplasmosis and red meat allergy associated with tick bites A 1700 word Glossary An Appendix of Arthropod Related Viruses of Medical and Veterinary Importance

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