



THE MOLECULAR BIOLOGY OF INSECT DISEASE VECTORS

A methods manual



Edited by
J.M. Crampton, C.B. Beard
and C. Louis



World Health Organization

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Molecular Biology Of Insect Disease Vectors A Methods Manual

Karl Maramorosch, Farida Mahmood



Molecular Biology Of Insect Disease Vectors A Methods Manual:

The Molecular Biology of Insect Disease Vectors J.M. Crampton, C.B. Beard, C. Louis, 2012-12-06 Only one generation ago entomology was a proudly isolated discipline In Comstock Hall the building of the Department of Entomology at Cornell University where I was first introduced to experimental science in the laboratory of Tom Eisner those of us interested in the chemistry of life felt like interlopers In the 35 years that have elapsed since then all of biology has changed and entomology with it Arrogant molecular biologists and resentful classical biologists might think that what has happened is a hostile take over of biology by molecular biology But they are wrong More and more we now understand that the events were happier and much more exciting amounting to a new synthesis Molecular Biology which was initially focused on the simplest of organisms bacteria and viruses broke out of its confines after the initial fundamental questions were answered the structure of DNA the genetic code the nature of regulatory genes and importantly as its methods became more and more generally applicable The recombinant DNA revolution of the 1970s the development of techniques for sequencing macromolecules the polymerase chain reaction new molecular methods of genetic analysis all brought molecular biology face to face with the infinite complexity and the exuberant diversity of life Molecular biology itself stopped being an isolated discipline preoccupied with the universal laws of life and became an approach to addressing fascinating specific problems from every field of biology Rearing Animal and Plant Pathogen Vectors Karl Maramorosch, Farida Mahmood, 2014-04-24 This book

provides an integrated description of methods used to rear vectors of human higher animal and plant pathogens in the laboratory It deals with diverse subject areas and contains descriptions of standard as well as highly specialized methods used by medical veterinary entomology and plant pathology experts The text brings together **American**

Trypanosomiasis Kevin M. Tyler, Michael A. Miles, 2012-12-06 American trypanosomiasis or Chagas disease is caused by the protozoan parasite *Trypanosoma cruzi* Sixteen to eighteen million people are currently infected with this organism and 45 000 deaths are attributed to the disease each year Infection with *T. cruzi* is life long and 10-30% of persons who harbor the parasite chronically develop cardiac and gastrointestinal problems associated with the parasitosis Although major progress has been made in recent years in reducing vector borne and transfusion associated transmission of *T. cruzi* the burden of disability and death in persons chronically infected with the organism continues to be enormous Eight to ten million persons born in countries in which Chagas disease is endemic currently reside in the United States and epidemiologic and census data suggest that 50 000-100 000 are chronically infected with *T. cruzi* The presence of these infected persons poses a risk of transmission of the parasite in the USA through blood transfusion and organ transplantation and several such cases have now been documented **American Trypanosomiasis** volume seven of *World Class Parasites* is written for students of tropical medicine parasitology and public health for researchers and practitioners alike who wish to bring themselves abreast of the status quo with respect to this disease It is intended to supplement formal textbooks in order to broaden and illuminate

current areas of scientific and public health concern Uniquely for T cruzi this book addresses parasite vector and host biology the pathogenesis of Chagas disease and current and prospective therapeutics and control strategies in a single volume

Sterile Insect Technique V.A. Dyck,J. Hendrichs,A.S. Robinson,2006-02-23 The sterile insect technique SIT is an environment friendly pest control method that fits into area wide integrated pest management AW IPM programmes This book describes the principles and practice of SIT frankly evaluating its strengths and weaknesses successes and failures SIT is useful against pests that have considerable impact on plant animal and human health and criteria are provided to guide in the selection of pests appropriate for SIT

Microbe-vector Interactions in Vector-borne Diseases S. H. Gillespie,G. L. Smith,A. Osbourn,2004-05-06 Several billion people are at daily risk of life threatening vector borne diseases such as malaria trypanosomiasis and dengue This volume describes the way in which the causal pathogens of such diseases interact with the vectors that transmit them It details the elegant biological adaptations that have enabled pathogens to live with their vectors and in some circumstances to control them This knowledge has led to novel preventative strategies in the form of antibiotics and new vaccines which are targeted not at the pathogen itself but at its specific vector

Advances in Genetics,1999-08-24 Advances in Genetics has established itself as an outstanding vehicle for the dissemination of research results in genetics Once again authoritative papers are presented here beginning with a review by Rai and Black highlighting the salient features of mosquito genomes and their evolution The recent progress which has been made by the cloning and characterization of two cooperating partners of the Neurospora blue light signal transduction chain is presented by Linden Balario Arpaia and Macino The emergence of the concept of X linked mental retardation XLMR is discussed by Neri and Chiurazzi as well as epidemiologic data and XLMR gene updates In chapter 4 Mahato Smith and Rolland provide insights into the potentials of plasmid based gene therapy and critical evaluation of gene delivery sciences and clinical applications of gene medicines Kathleen Trimman completes the volume with an outline of the genetic strategies designed to improve our understanding of the structure and function of 23S ribosomal RNA in E coli

Biological and Molecular Approaches in Pest Management Balwinder Singh,Ramesh Arora,S.S. Gosal,2015-01-01 This book offer a plethora of environmentally benign alternatives to these chemical insecticides It is hoped that the book will fill the wide gap in literature on utilization of biological and molecular approaches in biointensive IPM as an alternative to chemical insecticide based IPM for sustainable insect pest management in future

Sterile Insect Technique Victor A. Dyck,Jorge Hendrichs,A.S. Robinson,2021-01-06 The sterile insect technique SIT is an environment friendly method of pest control that integrates well into area wide integrated pest management AW IPM programmes This book takes a generic thematic comprehensive and global approach in describing the principles and practice of the SIT The strengths and weaknesses and successes and failures of the SIT are evaluated openly and fairly from a scientific perspective The SIT is applicable to some major pests of plant animal and human health importance and criteria are provided to guide in the selection of pests appropriate for the SIT In the second edition all

aspects of the SIT have been updated and the content considerably expanded A great variety of subjects is covered from the history of the SIT to improved prospects for its future application The major chapters discuss the principles and technical components of applying sterile insects The four main strategic options in using the SIT suppression containment prevention and eradication with examples of each option are described in detail Other chapters deal with supportive technologies economic environmental and management considerations and the socio economic impact of AW IPM programmes that integrate the SIT In addition this second edition includes six new chapters covering the latest developments in the technology managing pathogens in insect mass rearing using symbionts and modern molecular technologies in support of the SIT applying post factory nutritional hormonal and semiochemical treatments applying the SIT to eradicate outbreaks of invasive pests and using the SIT against mosquito vectors of disease This book will be useful reading for students in animal human and plant health courses The in depth reviews of all aspects of the SIT and its integration into AW IPM programmes complete with extensive lists of scientific references will be of great value to researchers teachers animal human and plant health practitioners and policy makers

Insect Transgenesis Alfred M. Handler, Anthony A. James, 2000-06-28 Imagine scientists controlling the transmission of certain diseases through the genetic modification of mosquitoes Eradicating harmful insects without the use of pesticides Or increasing the fertility of some insects who in turn eat harmful arthropods or even a plant pathogen Those are just a few of the real world applications of insect transgen

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

Emerging Infectious Diseases, 2003 Wolbachia Ann M. Fallon, 2023-11-25 This book provides insight into the biology of *Wolbachia* with a particular focus on methodology Chapters guide readers through reproductive phenotypes caused by *Wolbachia* survival and replication of *Wolbachia* in insect cell lines artificial introduction of *Wolbachia* into novel hosts and analysis of *Wolbachia* gene functions Written in the highly successful *Methods in Molecular Biology* series format chapters include introductions to their respective topics lists of

the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls

Traditional Medicinal Plants and Malaria Merlin Willcox, Gerard Bodeker, Philippe Rasoanaivo, Jonathan Addae-Kyereme, 2004-06-28 Malaria is an increasing worldwide threat with more than three hundred million infections and one million deaths every year The worlds poorest are the worst affected and many treat themselves with traditional herbal medicines These are often more available and affordable and sometimes are perceived as more effective than conventional antimala

Medical and Veterinary Entomology Gary R. Mullen, Lance A. Durden, 2009-04-22 Medical and Veterinary Entomology Second Edition has been fully updated and revised to provide the latest information on developments in entomology relating to public health and veterinary importance Each chapter is structured with the student in mind organized by the major headings of Taxonomy Morphology Life History Behavior and Ecology Public Health and Veterinary Importance and Prevention and Control This second edition includes separate chapters devoted to each of the taxonomic groups of insects and arachnids of medical or veterinary concern including spiders scorpions mites and ticks Internationally recognized editors Mullen and Durden include extensive coverage of both medical and veterinary entomological importance This book is designed for teaching and research faculty in medical and veterinary schools that provide a course in vector borne diseases and medical entomology parasitologists entomologists and government scientists responsible for oversight and monitoring of insect vector borne diseases and medical and veterinary school libraries and libraries at institutions with strong programs in entomology Follows in the tradition of Herm s Medical and Veterinary Entomology The latest information on developments in entomology relating to public health and veterinary importance Two separate indexes for enhanced searchability Taxonomic and Subject New to this edition Three new chapters Morphological Adaptations of Parasitic Arthropods Forensic Entomology Molecular Tools in Medical and Veterinary Entomology 1700 word glossary Appendix of Arthropod Related Viruses of Medical Veterinary Importance Numerous new full color images illustrations and maps throughout

Insect Molecular Biology and Biochemistry Lawrence I. Gilbert, 2011-09-19 The publication of the extensive seven volume work Comprehensive Molecular Insect Science provided a complete reference encompassing important developments and achievements in modern insect science One of the most swiftly moving areas in entomological and comparative research is molecular biology and this volume Insect Molecular Biology and Biochemistry is designed for those who desire a comprehensive yet concise work on important aspects of this topic This volume contains ten fully revised or rewritten chapters from the original series as well as five completely new chapters on topics such as insect immunology insect genomics RNAi and molecular biology of circadian rhythms and circadian behavior The topics included are key to an understanding of insect development with emphasis on the cuticle digestive properties and the transport of lipids extensive and integrated chapters on cytochrome P450s and the role of transposable elements in the developmental processes as well as programmed cell death This volume will be of great value to senior investigators graduate students post

doctoral fellows and advanced undergraduate research students It can also be used as a reference for graduate courses and seminars on the topic Chapters will also be valuable to the applied biologist or entomologist providing the requisite understanding necessary for probing the more applied research areas related to insect control Topics specially selected by the editor in chief of the original major reference work Fully revised and new contributions bring together the latest research in the rapidly moving fields of insect molecular biology and insect biochemistry including coverage of development physiology immunity and proteomics Full color provides readers with clear useful illustrations to highlight important research findings

Nature at Work - the Ongoing Saga of Evolution V. P. Sharma, 2011-12-27 Charles Robert Darwin was born on 12th February 1809 in Shrewsbury England Darwin shares his birthday with U S President Abraham Lincoln Both were crusaders against slavery Darwin disliked slavery and Lincoln abolished it Darwin was a born naturalist and showed keen interest in nature from the very beginning A breakthrough came when he was selected as a naturalist on the H M S Beagle ship His five year voyage on the Beagle started in 1831 and was completed in 1836 This was followed by publication of his research findings that challenged creationist views of the church Darwin conducted a study of fossils and geological records and concluded rightly that all life forms emerged over millions of years of evolution through the force of natural selection In 1859 Darwin published his work on evolution in a book titled *On the Origin of Species by Means of Natural Selection or the Preservation of Favoured Races* The book was received as a scientific bomb shell and has since changed the human understanding of life forever Today Darwin's ideas on evolution provide foundation to modern biology Darwin died of a heart attack on the 19th April 1882 and was buried in Westminster Abbey near the grave of Sir Isaac Newton The scientific community is celebrating Darwin's bicentenary worldwide in honor of his ingenuity scientific thought conviction and courage

The Insect Viruses Lois K. Miller, L. Andrew Ball, 2012-12-06 There are over a million different species of insects and individually they outnumber humans by more than 10 to 1 Moreover some insects live in close association with both plants and higher animals and naturally exchange viruses with them It has even been speculated that viruses in general may have radiated through the plant and animal kingdoms from common insect origins Be that as it may since insects play pivotal roles in the biosphere both to the benefit and detriment of mankind they and the viruses that infect them are important subjects for study Insects are infected by a diverse medley of viruses and this volume focuses on those insect virus families that are found primarily or exclusively in insects All major families of insect selective viruses are covered except for the baculoviruses which were described in a separate volume of The Viruses series Included in this volume are the established families of insect viruses the newly recognized ascovirus family and the nudiviruses which probably represent a separate family but currently remain unclassified The coverage of arboviruses is limited to a single chapter that focuses on their potential utility as vectors and in insect control Omitted for practical reasons are several individual insect viruses that have been described sporadically in the literature and probably represent novel virus families

Malaria Methods and Protocols Denise L.

Doolan, 2008-02-02 The Plasmodium spp parasite was identified as the causative agent of malaria in 1880 and the mosquito was identified as the vector in 1897 Despite subsequent efforts focused on the epidemiology cell biology immunology molecular biology and clinical manifestations of malaria and the Plasmodium parasite there is still no licensed vaccine for the prevention of malaria Physical barriers bed nets window screens and chemical prevention methods insecticides and mosquito repellents intended to interfere with the transmission of the disease are not highly effective and the profile of resistance of the parasite to chemoprophylactic and chemotherapeutic agents is increasing The dawn of the new millennium has seen a resurgence of interest in the disease by government and philanthropic organizations but we are still faced with complexities of the parasite the host and the vector and the interactions among them Malaria Methods and Protocols offers a comprehensive collection of protocols describing conventional and state of the art techniques for the study of malaria as well as associated theory and potential problems written by experts in the field The major themes reflected here include assessing the risk of infection and severity of disease laboratory models diagnosis and typing molecular biology techniques immunological techniques cell biology techniques and field applications

Insect Microbiome: From Diversity To Applications George Tsiamis, Brian Weiss, Adly M. M. Abdalla, 2023-03-21 Insects are by far the most diverse and abundant animal group with respect to the number of species globally in ecological habitats and in biomass The ecological and evolutionary success of insects depends in part on their countless relationships with beneficial microorganisms which are known to influence all aspects of their physiology ecology and evolution These symbiotic associations are known to a enhance nutrient poor diets b aid digestion of recalcitrant food components c protect from predators parasites and pathogens d contribute to inter and intraspecific communication e affect efficiency as disease vectors and f govern mating and reproductive systems

Characterization exploitation and management of the insect bacterial symbiotic associations can contribute significantly to the control of agricultural pests and disease vectors Insects that depend exclusively on nutritionally restricted diets such as plant sap vertebrate blood and woody material commonly possess obligate mutualistic endosymbionts involved in the provision of essential nutrients or in the degradation of food materials These intracellular mutualists commonly have the following biological features a they localize inside bacteriocytes b are essential for fitness c are maternally transmitted and d display strict host symbiont co evolutionary patterns In addition to obligate endosymbionts many insects harbor bacteria that are not essential for their survival or fecundity and are typically maintained with a patchy distribution in host populations Such symbionts can induce reproductive phenotypes in insect hosts including male killing feminization parthenogenesis or cytoplasmic incompatibility Because these bacteria manipulate their host's reproductive biology they also likely accelerate host processes As for essentially all animals microbial communities are particularly prominent in the digestive tract where they may be key mediators of the varied lifestyles of insect hosts The contribution of microorganisms particularly gut microorganisms to insect function is highly relevant from several perspectives linking to applications in medicine agriculture

and ecology Gut associated microorganisms can include protists fungi archaea and bacteria but it is generally accepted that bacterial species dominate the microbial community in the guts of most insects Gut associated bacteria can influence a vectoring efficiency b developmental time c decomposition of plant biomass and carbon cycle d nitrogen fixation and nitrogen cycle e mating incompatibilities and f detoxification of pesticides leading to the acquisition of insecticide resistance Ticks and Tick-Borne Pathogens Frans Jongejans, W. Reuben Kaufman, 2013-03-09 This volume contains the Proceedings of the 4th International Conference on Ticks and Tick borne Pathogens TTP 4 held in Banff Alberta Canada from 21 to 26 July 2002 TTP 4 continues an important tradition established in 1992 at the first Conference in St Paul Minnesota USA and developed subsequently at the Kruger National Park South Africa 1995 and the High Tatra Mountains Slovakia 1999 The 31 papers published in this special issue are divided between six sessions with a keynote address as an introduction The first session which deals with biosystematics genomics and proteomics of ticks contains the most recent world list of valid tick names The papers deal with a broad range of tick host pathogen interactions including remote sensing and mapping of ticks and tick borne pathogens as well as practical aspects of tick control It is recommended reading for anyone working on ticks and tick borne pathogens which are of increasing medical and veterinary importance worldwide

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