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Ronaldo Mohana-Borges
Editor



Dengue Virus

Methods and Protocols

 Humana Press

Dengue Methods And Protocols Methods In Molecular Biology

Richard J. Sugrue



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Dengue Radhakrishnan Padmanabhan, Subhash G. Vasudevan, 2014 Infection by flaviviruses such as dengue virus serotypes DENV 1 4 Japanese encephalitis virus JEV tick borne encephalitis virus TBE yellow fever virus YFV and West Nile virus WNV impact millions of lives and cause tens of thousands of mortalities each year Dengue is a global public health emergency especially since there is no preventative vaccine or antiviral treatment for dengue disease *Dengue Methods and Protocols* offers the increasing number of dengue researchers a one stop protocol book with techniques compiled from the leading laboratories working on dengue Chapters cover topics such as dengue virus isolation from clinical samples quantification of human antibodies against the virus assays to quantify the virus particles the widely used mouse model to study dengue pathogenesis vaccine and antiviral efficacies Written in the 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 protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible *Dengue Methods and Protocols* seeks to serve both professionals and novices with its well honed methodologies on dengue research

Dengue Virus Ronaldo Mohana-Borges, 2021 This detailed volume explores various aspects of the dengue virus and its four serotypes DENV1 4 Beginning with a section on protocols to produce DENV and its proteins that are fundamental for many biophysical biochemical immunological and cellular studies the book continues by covering protocols to study the interactions between DENV and cellular proteins DENV immunopathogenesis and diagnosis as well as recent advances in animal models that can be used in studies of DENV immunopathogenesis and vaccine development Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical *Dengue Virus Methods and Protocols* serves as an ideal guide for researchers attempting to further understand this critical threat to worldwide public health

Medical Sensors And Lab-on-a-chip Devices: Mechanisms, Biofunctionalization And Measurement Techniques Vinod Kumar Khanna, 2018-02-14 This book provides a comprehensive coverage of sensor and lab on a chip technologies for medical applications Presenting a unified coverage of the operational principles and fabrication issues of the sensors and related chips this important compendium describes the contemporary electronic devices that help to identify and effectively combat different diseases and malfunctions of the human body It is intended to serve as an essential textbook or reference book for graduate postgraduate students in electrical and electronic engineering biomedical engineering and those pursuing a course on sensor technologies in medicine Research students and scientists too will find the self explanatory diagrams and end of chapter bibliographies very useful

Glycoviropology Protocols Richard J. Sugrue, 2008-01-18 *Glycoviropology Protocols* reviews the increasing importance of glycosylation to the field of viropology as well as virus replication The chapters provide an overview of

glycosylation in relation to virus infection and the generic techniques that are used to analyze and characterize glycoproteins

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

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Microbial Genomics: Clinical, Pharmaceutical, and Industrial Applications Huseyin Tombuloglu, Amal Mahmoud, 2024-07-27 As the field of genomics has progressed our understanding of microbiology has also developed With the advent of next generation sequencing methods and advancements in instrumental resolution complex transcriptome proteome and metabolome data could be analyzed as well as detailed annotation of microbial genomes *Microbial Genomics Clinical Pharmaceutical and Industrial Applications* focuses on the various applications of microbial genomics in clinical pharmaceutical and industrial fields It consists of four parts devoted to bacterial viral and fungal genomics as well as their applications in clinical pharmaceutical and industrial fields Chapters are written by experts in their respective disciplines and are tightly organized with an introduction to detailed descriptions available software implementation applications advanced topics summaries analytic questions exercises and suggested readings Throughout this book the latest genomics and biotechnological developments and discoveries as well as open problems and future challenges on microbial genomics will be highlighted Readers will be introduced to state of the art developments and trends of microbial genomics its clinical pharmaceutical and industrial applications The book will be beneficial for researchers who study microbial genomics in universities post graduate and graduate programs biology biotechnology medicine genetics microbiology industrial and environmental microbiology etc as well as the pharmaceutical and industrial sector Presents the recent genomic developments in the industrial applications of microorganisms Summarizes recent developments in microbial genomics emphasizing the role of next generation sequencing in functional genomics Focus on how transcriptomics can help better understand host responses to pathogen infection Describes applications of genomics in clinical microbiology

Bioprocessing of Viral Vaccines Amine Kamen, Laura Cervera, 2022-09-06 This book focuses on cell culture produced viral vaccines to meet the needs of the rapidly expanding research and development in academia and

industry in the field This book introduces the basic principles of vaccination and the manufacturing of viral vaccines Bioprocessing of Viral Vaccines will provide an overview of the advanced strategies needed to respond to the challenges of new and established viral infection diseases The first few chapters cover the basics of virology and immunology as essential concepts to understand the function and design of viral vaccines The core of the content is dedicated to process development including upstream processing and cell culture of viral vaccines downstream processing and extensive analytical technologies specific to viral vaccines Advanced process analytical technologies PAT and Quality by Design QbD concepts are also introduced in the context of vaccine manufacturing The case studies included cover inactivated attenuated vaccines exemplified by influenza vaccines sub unit vaccines exemplified by Virus Like Particles VLPs HPV vaccines and sub unit vaccines Flublock vectored vaccines adenoviruses and Vesicular stomatitis Virus VSV vectored vaccines genomic vaccines DNA and mRNA vaccines as developed for COVID 19 response in particular and a review of COVID 19 vaccines approved or in advanced clinical trials This book is aimed at graduate engineers and professionals in the fields of vaccinology bioprocessing and biomanufacturing of viral vaccines **Garner and Klintworth's Pathobiology of Ocular Disease** Gordon K. Klintworth,Alec Garner,2008-03-27 Moving from a standard clinical reference Garner and Klintworth s Third Edition of Pathobiology of Ocular Disease is now modeled to be both a scientific research tool and a quick reference option for the practicing ophthalmologist ophthalmic pathologist optometrist and vision scientist With the addition of ten new chapters this edition focuses **Host And Pathogen Mechanisms Underpinning Viral Ecology And Emerging Infections** Declan C. Schroeder,Jim L. Van Etten,Ian M. Jones,Janusz Tadeusz Paweska,Zhengli Shi,Ahmed Sayed Abdel-Moneim,2021-02-24

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