

Dengue Virus

Detection, Diagnosis and Control



Basak Ganim
Adam Reis
Editors

Dengue Virus Detection Diagnosis And Control Virology Research Progress

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Dengue Virus Detection Diagnosis And Control Virology Research Progress:

Dengue Virus Basak Ganim,Adam Reis,2010 Dengue is an endemic viral disease affecting human population in tropical and subtropical regions around the world predominantly in urban and semi urban areas Dengue fever DF and its more serious forms the dengue haemorrhagic fever DHF and dengue shock syndrome DSS are becoming important public health problems The global prevalence of dengue has grown dramatically in recent decades An estimated 2 5 billion people in more than 100 countries are at risk of acquiring dengue viral infection with more than 50 million new infections being projected annually between 20 000 and 25 000 deaths mainly in children This book aims to review the possible molecular mechanisms that attribute to the variation of Dengue virus DENV disease Additionally a description of the animal models that have been developed to study DENV pathogenesis and to test potential vaccines and therapeutics are reviewed This book also reviews the current understanding of DENV pathogenesis and the challenges confronting vaccine and therapeutic developers Other chapters in this book examine the responses of target cells including dendritic cells in people infected with DENV recent developments in the molecular diagnosis for dengue virus the mathematical models on dengue transmission and control and a discussion of the ways in which to prevent and control dengue outbreaks

Global Virology IV: Viral Disease Diagnosis and Treatment Delivery in the 21st Century Charurut Somboonwit,Paul Shapshak,Pandjassaram

Kangueane,S. Balaji,John T. Sinnott,Lynette J. Menezes,Asa Oxner,2024-09-05 In the face of recent viral outbreaks and a global viral pandemic the necessity for innovation and continued rapid advancement in viral diagnosis and treatment methods has become even more apparent Global Virology IV Viral Disease Diagnosis and Treatment Delivery in the 21st Century explores the latest advances in virology and trends in clinical practice focused on foundational principles and advancements expected to significantly impact this field Chapters address SARS CoV 2 Ebola Zika Mpox and Hepatitis C among other key viral threats before presenting a detailed analysis of antiviral agents broadly and concerning specific vulnerable populations such as stem cell and solid organ transplant recipients It is designed as a helpful resource for medical students scientists and professionals bridging current practice and future applications and inspiring further innovations and improvements in global health

Zika Virus Impact, Diagnosis, Control, and Models Colin R. Martin,Caroline

Hollins-Martin,Victor R Preedy,Rajkumar Rajendram,2021-07-04 Zika Virus Impact Diagnosis Control and Models Volume Two The Neuroscience of Zika examines diagnosis vaccines and potential therapy methods for Zika virus syndrome The book also details the neuroscience of Guillain Barr syndrome its effects and neuromuscular rehabilitation It is designed to help readers better understand detection therapies for Zika virus preventative vaccines diagnosis and associated microcephaly Chapters on models enable further research and understanding This book has applicability for neuroscientists neurologists virologists and anyone working to better understand the evolution and pathogenesis of Zika virus related conditions Provides a broad range of topics related to the neuroscience of Zika including its diagnosis vaccines and therapy Contains chapter

abstracts key facts a dictionary of terms and summary points to aid in understanding Discusses novel and non pharmacological therapies Guillain Barr Syndrome and vaccine development Features chapters on rat mouse and guinea pig models of Zika and case reports of Zika co infection with chikungunya dengue 2 and Guillain Barr Includes coverage of microcephaly and developmental delays and examines Zika outbreaks in Brazil Honduras Uganda Jamaica and Mozambique

Encyclopedia of Virology, 2021-02-24 Encyclopedia of Virology Fourth Edition Five Volume Set builds on the solid foundation laid by the previous editions expanding its reach with new and timely topics In five volumes the work provides comprehensive coverage of the whole virosphere making this a unique resource Content explores viruses present in the environment and the pathogenic viruses of humans animals plants and microorganisms Key areas and concepts concerning virus classification structure epidemiology pathogenesis diagnosis treatment and prevention are discussed guiding the reader through chapters that are presented at an accessible level and include further readings for those needing more specific information More than ever now with the Covid19 pandemic we are seeing the huge impact viruses have on our life and society This encyclopedia is a must have resource for scientists and practitioners and a great source of information for the wider public Offers students and researchers a one stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field with a range of different expertise thus ensuring a high quality standard **Medicine Update 2019 &**

Progress in Medicine 2019 KK Pareek,G Narsimulu,2019-05-31 Medicine Update 2019_2 Volumes SECTION 1 CARDIOLOGY SECTION 2 HYPERTENSION SECTION 3 PULMONOLOGY SECTION 4 ENDOCRINOLOGY SECTION 5 DIABETOLOGY SECTION 6 NEUROLOGY SECTION 7 RHEUMATOLOGY SECTION 8 NEPHROLOGY SECTION 9 GASTROENTEROLOGY AND HEPATOLOGY SECTION 10 ONCOLOGY AND HEMATOLOGY SECTION 11 INFECTIOUS DISEASES SECTION 12 CRITICAL CARE MEDICINE SECTION 13 POISONING AND TOXICOLOGY SECTION 14 PREGNANCY SECTION 15 HIV SECTION 16 GERIATRICS SECTION 17 LIPIDOLOGY SECTION 18 NUTRITION SECTION 19 ENVIRONMENTAL MEDICINE SECTION 20 MISCELLANEOUS Progress in Medicine 2019 SECTION 1 CARDIOLOGY SECTION 2 ENDOCRINOLOGY AND DIABETOLOGY SECTION 3 GASTROENTEROLOGY SECTION 4 GERIATRICS SECTION 5 GENERAL MEDICINE SECTION 6 INFECTIOUS DISEASES SECTION 7 NEPHROLOGY SECTION 8 NEUROLOGY SECTION 9 ONCOLOGY SECTION 10 PULMONOLOGY SECTION 11 POISONING SECTION 12 RABINDRANATH TAGORE ORATION SECTION 13 RHEUMATOLOGY Index

Next-Generation Nanobiosensor Devices for Point-Of-Care Diagnostics Gorachand Dutta,2022-12-02 This book reviews the potential of next generation point of care diagnosis in healthcare It also discusses the printed chip based assay Lab on a Chip Lab on a PCB for rapid inexpensive biomarkers detection The book presents the development of sensory systems based on the use of nanomaterials It examines different biosensors for medical diagnosis using surface modification strategies of transducers It presents electrochemical concepts based on different

nanobiomaterials and nanocomposites for cancer theranostics Notably the book examines the recent advances in wearable cost effective hemodynamic sensors to detect diseases at an early stage It further explores the combination of redox cycling and electrochemical detection to develop ultrasensitive and reproducible biosensors for point of care testing Finally the book summarizes the significant challenges in the point of care diagnostics and its future opportunities in healthcare Emerging and Re-Emerging Infectious Diseases , An Issue of Infectious Disease Clinics of North America Alimuddin Zumla,David S.C. Hui,2019-11-02 In consultation with Consulting Editor Dr Helen Boucher Drs Zumla and Hui have assembled an excellent clinical overview of the current priorities in treating emerging and re emerging infections A number of landmark events have occurred in the area of epidemic infections The frequency and diversity of serious and drug antibiotic resistant infections are increasing New and re emerging infectious disease outbreaks continue to cause much human suffering and loss of life worldwide Current priority infectious diseases concerns that threaten global health security are covered in this issue Cholera Typhoid and antibiotic resistant strains multi drug resistant Tuberculosis Invasive Meningococcal disease Invasive Pneumococcal disease antibiotic resistant bacterial viral and protozoal infections diphtheria pandemic influenza MERS SARS Measles viral haemorrhagic fevers wild type Polio virus Zika antibiotic resistant sexually transmitted diseases drug resistant Malaria ARV resistant HIV and fungal infections This issue s clinical review articles written by authoritative and renowned experts in the area would have broad appeal from general internists to respiratory specialists It should also prove interesting to infectious diseases specialists health practitioners in the tropics pulmonologists internal medicine fellows family physicians and health care policy makers in the west and developing countries Medical students postgraduates and research fellows both undergraduates and postgraduates will also find this issue useful and to be a updated reference in the field of respiratory medicine tropical medicine and infectious diseases **Infectious Diseases of the Horse** JH van der Kolk,EJB Veldhuis Kroeze,2013-06-03 A clinician and a pathologist have collaborated to produce this thorough and balanced account of infectious diseases affecting horses The book evaluates the latest diagnostic aids including rapid developments in molecular biology while emphasising that they are no substitute for clinical observation and skills The majority of equine infectious d Tropical Infectious Diseases Ranjan L. Fernando,Sujatha S. E. Fernando,Anthony Siew-Yin Leong,2001-01-02 This book provides a coverage of tropical disease due to parasites **Cumulated Index Medicus** ,1988

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