

Comparison Of Ns1 Antigen Detection Elisa Real Time Rt

NS1 Antigen ELISA & RT-PCR in Acute Phase of Japanese Encephalitis [Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities](#) *Dengue Fever* **Induction of HO-1 on Endothelial Cells Via PI3K Signaling Pathway by Anti-NS1 Antibodies in Dengue Virus Infected Patients** [Zika Virus Impact, Diagnosis, Control, and Models](#) **Dengue and Zika: Control and Antiviral Treatment Strategies** *Dengue New Treatment Strategies for Dengue and Other Flaviviral Diseases* *Antivirals for Emerging Viruses: Vaccines and Therapeutics* **Flavivirus Encephalitis** **Flavivirus: Advances in Research and Treatment: 2011 Edition** **Immunopathology of Chronic Bacterial and Viral Diseases Prevalent in Latin America** **The Flaviviruses: Structure, Replication and Evolution** **Modern Vaccinology** **Dengue Fever: New Insights for the Healthcare Professional: 2012 Edition** **MYCDCGP - Clinical Practice Guidelines - Management of Dengue Infection in Adults** [Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol.55](#) *IAP Textbook of Pediatrics* **Handbook of Nanomaterials for Industrial Applications** **Mobile Diagnosis 2.0** **Molecular Detection of Human Viral Pathogens** **Medical Sensors And Lab-on-a-chip Devices: Mechanisms, Biofunctionalization And Measurement Techniques** **Neurology in Tropics (e-Book)** *Dengue and Dengue Hemorrhagic Fever, 2nd Edition* **Comprehensive Textbook of Infectious Diseases** [Human Emerging and Re-emerging Infections](#) [Human Emerging and Re-emerging Infections, 2 Volume Set](#) **Dengue Virus** *Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities* [Naturally Occurring Antibodies \(NAbs\)](#) [Molecular Microbiology](#) [Monoclonal Antibodies](#) [Vaccines E-Book](#) **The Neuroscience of Zika Virus** *Flavivirus—Advances in Research and Treatment: 2012 Edition* *Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition* **Dengue Fever in a One Health Perspective** [Dengue](#) [Fields' Virology Trends in Infectious Diseases](#)

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Induction of HO-1 on Endothelial Cells Via PI3K Signaling Pathway by Anti-NS1 Antibodies in Dengue Virus Infected Patients Aug 02 2022

Flavivirus—Advances in Research and Treatment: 2012 Edition Dec 02 2019 *Flavivirus—Advances in Research and Treatment: 2012 Edition* is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Flavivirus. The editors have built *Flavivirus—Advances in Research and Treatment: 2012 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Flavivirus in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Flavivirus—Advances in Research and Treatment: 2012 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Dengue Virus Jul 09 2020 Scientific research on dengue has a long and rich history. The literature has been touched by famous names in medicine- Benjamin Rush, Walter Reed, and Albert Sabin, to name a very few- and has been fertile ground for medical historians . The advances made in those early investigations are all the more remarkable for the limited tools available at the time. The demonstration of a viral etiology for dengue fever, the recognition of mosquitoes as the vector for transmission to humans, and the existence of multiple viral variants (serotypes) with only partial cross-protection were all accomplished prior to the ability to culture and characterize the etiologic agent. Research on dengue in this period was typically driven by circumstances. Epidemics of dengue created public health crises, although these were relatively short-lived in any one location, as the population of susceptible individuals quickly shrank. Military considerations became as a major driving force for research. With the introduction of large numbers of non-immune individuals into endemic areas, dengue could cripple military readiness, taking more soldiers out of action than hostile fire. Dengue and dengue hemorrhagic fever, which assumed pandemic proportions during the latter half of the last century, have shown no indication of slowing their growth during this first decade of the twenty-first century. Challenges remain in understanding the basic mechanisms of viral replication and disease pathogenesis, in clinical management of patients, and in control of dengue viral transmission. Nevertheless, new tools and insights have led to major recent scientific advances. As the first candidate vaccines enter large-scale efficacy trials, there is reason to hope that we may soon "turn the corner" on this disease.

NS1 Antigen ELISA & RT-PCR in Acute Phase of Japanese Encephalitis Nov 05 2022

[Molecular Microbiology](#) Apr 05 2020 Presenting the latest molecular diagnostic techniques in one comprehensive volume The molecular diagnostics landscape has changed dramatically since the last edition of *Molecular Microbiology: Diagnostic Principles and Practice* in 2011. With the spread of molecular testing and the development of new technologies and their opportunities, laboratory professionals and physicians more than ever need a resource to help them navigate this rapidly evolving field. Editors David Persing and Fred Tenover have brought together a team of experienced researchers and diagnosticians to update this third edition comprehensively, to present the latest developments in molecular diagnostics in the support of clinical care and of basic and clinical research, including next-generation sequencing and whole-genome analysis. These updates are provided in an easy-to-read format and supported by a broad range of practical advice, such as determining the appropriate type and quantity of a specimen, releasing and concentrating the targets, and eliminating inhibitors. *Molecular Microbiology: Diagnostic Principles and Practice* Presents the latest basic scientific theory underlying molecular diagnostics Offers tested and proven applications of molecular diagnostics for the diagnosis of infectious diseases, including point-of-care testing Illustrates and summarizes key concepts and techniques with detailed figures and tables Discusses emerging technologies, including the use of molecular typing methods for real-time tracking of infectious outbreaks and antibiotic resistance Advises on the latest quality control and quality assurance measures Explores the increasing opportunities and capabilities of information technology *Molecular Microbiology: Diagnostic Principles and Practice* is a textbook for molecular diagnostics courses that can also be used by anyone involved with diagnostic test selection and interpretation. It is also a useful reference for laboratories and as a continuing education resource for physicians.

Handbook of Nanomaterials for Industrial Applications Apr 17 2021 *Handbook of Nanomaterials for Industrial Applications* explores the use of novel nanomaterials in the industrial arena. The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures, such as increasing sensitivity, magnifying precision and improving production limits. In addition, the book stresses that these approaches tend to provide green, sustainable solutions for industrial developments. Finally, the legal, economical and toxicity aspects of nanomaterials are covered in detail, making this is a comprehensive, important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry. Demonstrates how cutting-edge developments in nanomaterials translate into real-world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal, economical and toxicity issues arising from the industrial applications of nanomaterials

Mobile Diagnosis 2.0 Mar 17 2021 Mobile sensing and diagnostic capabilities are becoming extremely important for a wide range of emerging applications and fields spanning mobile health, telemedicine, point-of-care diagnostics, global health, field medicine, democratization of sensing and diagnostic tools, environmental monitoring, and citizen science, among many others. The importance of low-cost mobile technologies has been underlined during this current COVID-19 pandemic, particularly for applications such as the detection of pathogens, including bacteria and viruses, as well as for prediction and management of different diseases and disorders. This book focuses on some of these application areas and provides a timely summary of cutting-edge results and emerging technologies in these interdisciplinary fields.

Flavivirus: Advances in Research and Treatment: 2011 Edition Dec 26 2021 *Flavivirus: Advances in Research and Treatment: 2011 Edition* is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Flavivirus in a concise format. The editors have built *Flavivirus: Advances in Research and Treatment: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Flavivirus in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Flavivirus: Advances in Research and Treatment: 2011 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

IAP Textbook of Pediatrics May 19 2021

Dengue Aug 29 2019 This unique volume presents an up-to-date review of one of the world's major health problems -- diseases caused by the four dengue viruses. It begins with an insightful story of the origin of dengue disease outbreaks, including the emergence of severe and fatal dengue hemorrhagic fever. The nature, structure and biology of the four dengue viruses are described, and a major portion of the book is focused on the epidemiology of dengue as a mosquito-borne disease. This is complemented by critiques of existing mosquito control programs by three groups of outstanding authorities. The strongest element of the volume is its comprehensive description of the current understanding of dengue disease pathogenesis, followed by an analysis of the pros and cons of five of the most controversial areas in the field: the WHO DEF case definition, secondary dengue infections, virulent viruses, the role of abnormal T cells and autoimmunity.

Dengue Apr 29 2022 This edited book *Dengue - Immunopathology and Control Strategies* contains eight chapters divided in three sections that underline important aspects of dengue virus, the most prevalent and life-threatening arbovirus in the world, including virus replication cycle and pathology, diagnostic methods, and control. The first section brings knowledge on basic aspects of dengue virus replication which can be associated to its immunopathology. The second section includes two chapters on dengue diagnosis and emphasizes that in spite of the many scientific efforts, this subject continues to be a drawback in the disease control. Vector-based control strategies are discussed in the third section which also contains a chapter on regulation of dengue vaccines and the experience of Mexico in the implementation of the unique registered dengue vaccine.

Dengue Fever in a One Health Perspective Sep 30 2019 *Dengue Fever in a One Health Perspective* underlines important aspects of dengue virus, the most prevalent and life-threatening arbovirus in the world. Over three sections, chapters cover such topics as biological and environmental aspects, physiopathology, molecular biology, diagnosis, and control strategies. The first section provides knowledge on basic aspects of dengue virus biology and its emergence and re-emergence associated to environmental changes. The second section includes two chapters on dengue immunopathology, a drawback in disease control and vaccine development. Finally, the third section examines molecular biology tools employed in dengue virus immunopathogenesis studies, diagnosis, drug design, and in the use of vectors as sentinels in surveillance and vector biology studies.

Human Emerging and Re-emerging Infections Sep 10 2020 Emerging and re-emerging pathogens pose several challenges to diagnosis, treatment, and public health surveillance, primarily because pathogen identification is a difficult and time-consuming process due to the “novel” nature of the agent. Proper identification requires a wide array of techniques, but the significance of these diagnostics is anticipated to increase with advances in newer molecular and nanobiotechnological interventions and health information technology. Human Emerging and Re-emerging Infections covers the epidemiology, pathogenesis, diagnostics, clinical features, and public health risks posed by new viral and microbial infections. The book includes detailed coverage on the molecular mechanisms of pathogenesis, development of various diagnostic tools, diagnostic assays and their limitations, key research priorities, and new technologies in infection diagnostics. Volume 1 addresses viral and parasitic infections, while volume 2 delves into bacterial and mycotic infections. Human Emerging and Re-emerging Infections is an invaluable resource for researchers in parasitologists, microbiology, Immunology, neurology and virology, as well as clinicians and students interested in understanding the current knowledge and future directions of infectious diseases.

Trends in Infectious Diseases Jun 27 2019 This book gives a comprehensive overview of recent trends in infectious diseases, as well as general concepts of infections, immunopathology, diagnosis, treatment, epidemiology and etiology to current clinical recommendations in management of infectious diseases, highlighting the ongoing issues, recent advances, with future directions in diagnostic approaches and therapeutic strategies. The book focuses on various aspects and properties of infectious diseases whose deep understanding is very important for safeguarding human race from more loss of resources and economies due to pathogens.

Dengue and Zika: Control and Antiviral Treatment Strategies May 31 2022 This contributed volume contains 25 chapters from leading international scientists working on dengue and Zika viruses, who came together in Praia do Tofo in Mozambique to discuss the latest developments in the fields of epidemiology, pathogenesis, structural virology, immunology, antiviral drug discovery and development, vaccine efficacy, and mosquito control programs. The meeting venue offered an opportunity to discuss current research on these flaviviruses in an idyllic setting, and also to develop first-hand appreciation of the issues in infectious diseases facing developing countries and of the research gaps in Africa. For readers, who should include basic and clinical researchers in the field and public health professionals, the chapters are organized to provide a comprehensive overview of the various topics in current dengue and Zika virus research. A unique feature of the proceedings of this meeting is the inclusion of the discussions that took place following presentations. These have been transcribed and appended to the end of the relevant chapters, and they form the “salt in the soup” of this book.

New Treatment Strategies for Dengue and Other Flaviviral Diseases Mar 29 2022 Dengue virus is a member of the Flaviviridae family, which includes viruses associated with human diseases such as yellow fever, Japanese encephalitis and hepatitis C. Dengue fever is transmitted by mosquitoes, principally *Aedes aegypti*. There are four serotypes of dengue virus, of which DENV-2 has been the most prevalent in many recent epidemics. Following primary infection, lifelong immunity develops, preventing repeated assault by the same serotype. However, the non-neutralizing antibodies from a previous infection or maternally acquired antibodies are thought to form complexes with a different serotype during a subsequent infection and cause dengue haemorrhagic fever/dengue shock syndrome, which can be fatal. There is no treatment or vaccine available today that can combat this emerging and uncontrolled disease. This book features contributions from the world’s leading researchers working on dengue and related flaviviruses who examine the current state of the art in the molecular biology of the dengue virus. Particular emphasis is placed on the structure and function of the virus and the targeting of virus proteins by potential antiviral agents. The pathogenesis of dengue and dengue haemorrhagic fever are discussed in detail, especially the target cells and the specific receptors on these cells, thereby developing a clear overview of host and viral factors that contribute to dengue haemorrhagic fever. Finally, the book reviews the therapeutic options, paying particular attention to ways in which vector, host and environment can play a critical role in the spread of this disease. With dengue fever and other emerging viral diseases becoming increasingly prevalent around the world, this book provides valuable insight into the virus that causes this disease and potential ways to manage it. It is essential reading for all those working in tropical diseases, public health and virology. Praise from the reviews: "The book provides an excellent summary of dengue/flavivirus research and is important for individuals and institutions interested in emerging infectious diseases." MICROBIOLOGY TODAY

Modern Vaccinology Sep 22 2021 The recent developments in modern vaccinology are mainly based on: (i) cloning of microbial genes into recombinant vectors containing genetic information for expression of desired neutralizing immunogens; (ii) alternatives of attenuated vectors with deleted genes permitting the insertion of several foreign genes expressing antigens exposed to the host immune system during the abortive replication of such vectors; (iii) combined vaccines with the aim to protect against many diseases with a limited number of administrations; (iv) evidence demonstrating the ability of animals to respond serologically to DNA injections considered as a potential method of vaccination; (v) the possibility to manipulate the immune system with new and improved immunomodulators enhancing the immune response; and (vi) new microcarrier systems for particular immunogens or immunomodulators delivery, either in a single dose or sustained release, and presentation to the immune system for a relevant response. New vaccines being developed are mainly based on viral, bacterial or other vectors modified with genetic engineering technology, to possess and express desired antigens for vaccination against single or multiple infections. Existing combined vaccines like diphtheria, tetanus, pertussis (DTP) are also experimented with new additional components like recombinant hepatitis B virus surface antigen, inactivated poliovirus, and *Haemophilus influenzae* type b immunogens, in order to produce multivalent vaccines. Such types of vaccines permitting the reduction of multiple medical visits is of particular interest to pediatric immunization programs, and would benefit especially the developing countries assuring better vaccine compliance with immunization schedules.

Zika Virus Impact, Diagnosis, Control, and Models Jul 01 2022 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-Barré 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-Barré 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-Barré. Includes coverage of microcephaly and developmental delays and examines Zika outbreaks in Brazil, Honduras, Uganda, Jamaica and Mozambique.

Antivirals for Emerging Viruses: Vaccines and Therapeutics Feb 25 2022 This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact.

Medical Sensors And Lab-on-a-chip Devices: Mechanisms, Biofunctionalization And Measurement Techniques Jan 15 2021

Dengue Fever: New Insights for the Healthcare Professional: 2012 Edition Aug 22 2021 Dengue Fever: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Dengue Fever. The editors have built Dengue Fever: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Dengue Fever in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Dengue Fever: New Insights for the Healthcare Professional / 2012 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol.55 Jun 19 2021 Biomedical Engineering and Health Informatics

Vaccines E-Book Feb 02 2020 From the development of each vaccine to its use in reducing disease, Plotkin’s Vaccines, 7th Edition, provides the expert information you need to provide optimal care to your patients. This award-winning text offers a complete understanding of each disease, as well as the latest knowledge of both existing vaccines and those currently in research and development. Described by Bill Gates as "an indispensable guide to the enhancement of the well-being of our world," Plotkin’s Vaccines is a must-have reference for current, authoritative information in this fast-moving field. Includes complete information for each disease, including clinical characteristics, microbiology, pathogenesis, diagnosis, and treatment, epidemiology, and public health and regulatory issues – plus complete information for each vaccine, including its stability, immunogenicity, efficacy, duration of immunity, adverse events, indications, contraindications, precautions, administration with other vaccines, and disease-control strategies. Analyzes the cost-benefit and cost-effectiveness of different vaccine options. Helps you clearly visualize concepts and objective data through an abundance of tables and figures. Covers the new oral cholera and zoster vaccines, as well as newly licensed meningococcal group B vaccines and a newly licensed dengue vaccine. Brings you up to date on successful human trials of Ebola vaccines, an enterovirus 71 vaccine licensed in China, and new recommendations and changes to polio vaccines. Features a new chapter on maternal immunization.

The Neuroscience of Zika Virus Jan 03 2020 Zika Virus Biology, Transmission, and Pathology: The Neuroscience of Zika provides a detailed introduction to the molecular biology of the Zika virus and its features, transmission, and impact on neurological systems. Designed to better readers’ understanding of the Zika virus, this volume features chapters on the immune response, molecular mechanisms, and other areas to better understand underlying pathways. This book has applicability for neuroscientists, neurologists, virologists and anyone working to better understand the evolution and pathogenesis of Zika virus-related conditions. Zika Virus Impact, Diagnosis, Control, and Models: The Neuroscience of Zika examines diagnosis, vaccines, and potential therapy methods for Zika virus syndrome. The book also details the neuroscience of Guillain-Barré 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. Zika Virus Biology, Transmission, and Pathology: Presents the most comprehensive coverage of a broad range of topics related to the neuroscience of Zika, including transmission and virus biology. Contains an abstract, key facts, a mini dictionary of terms, and summary points to aid in understanding in each chapter. Features chapters on Zika vectors and fetal imaging. Includes coverage of microcephaly and developmental delays and examines Zika outbreaks in Brazil, Puerto Rico and India. Discusses unique topics in Zika biology, associated neuro-inflammation, and impacts on neurological systems. Zika Virus Impact, Diagnosis, Control, and Models: 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-Barré 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-Barré. Includes coverage of microcephaly and developmental delays and examines Zika outbreaks in Brazil, Honduras, Uganda, Jamaica and Mozambique.

Flavivirus Encephalitis Jan 27 2022 Encephalitis is an inflammation of the brain tissue associated with clinical evidence of brain dysfunction. The disease is of high public health importance worldwide due to its high morbidity and mortality. Flaviviruses, such as tick-borne encephalitis virus, Japanese encephalitis virus, Murray Valley encephalitis virus, or St. Louis encephalitis virus, represent important causative agents of encephalitis in humans in various parts of the world. The book Flavivirus Encephalitis provides the most recent information about selected aspects associated with encephalitic flaviviruses. The book contains chapters that cover a wide spectrum of subjects including flavivirus biology, virus-host interactions, role of vectors in disease epidemiology, neurological dengue, and West Nile encephalitis. Special attention is paid to tick-borne encephalitis and Japanese encephalitis viruses. The book uniquely combines up-to-date reviews with cutting-edge original research data, and provides a condensed source of information for clinicians, virologists, pathologists, immunologists, as well as for students of medicine or life sciences.

MYDCGP - Clinical Practice Guidelines - Management of Dengue Infection in Adults Jul 21 2021

Dengue and Dengue Hemorrhagic Fever, 2nd Edition Nov 12 2020 Continued geographic expansion of dengue viruses and their mosquito vectors has seen the magnitude and frequency of epidemic dengue/dengue hemorrhagic fever (DF/DHF) increase dramatically. Recent exciting research on dengue has resulted in major advances in our understanding of all aspects of the biology of these viruses, and this updated second edition brings together leading research and clinical scientists to review dengue virus biology, epidemiology, entomology, therapeutics, vaccinology and clinical management.

Dengue Fever Sep 03 2022 For over 70 years, dengue fever has challenged health systems in every region of the World. It has evolved from a benign febrile illness from the tropics to a major concern in urban settlements, overwhelming health infrastructure with large outbreaks, as it continues to teach us important lessons with its complexities. This book intends to review the latest updates on dengue fever, the tools available for its study and control, and promising technologies currently in the pipeline. With this work, the editors wish to provide students with an updated reference text on the basics of this disease as well as researchers and academics, with a useful document to understand the current outlook and the perspectives for the future.

The Flaviviruses: Structure, Replication and Evolution Oct 24 2021 Over 50% of known flaviviruses have been associated with human disease. The Flavivirus genus constitutes some of the most serious human pathogens including Japanese encephalitis, dengue and yellow fever. Flaviviruses are known for their complex life cycles and epidemic spread, and are considered a globally-emergent viral threat. Structure, Replication and Evolution is the first volume of The Flaviviruses and presents the latest research covering the conceptual advances on aspects such as the characterization of virus structure, cellular receptors, mechanisms of virus entry, host and viral components of the RNA replicase. Includes new, detailed information on the evolution, viral structure and replication of the Flavivirus family The only complete reference book on a major virus family Describes the technologies that have contributed to our current knowledge about Flaviviruses Identifies the major problems faced in understanding the virus-host interactions that result in disease

Monoclonal Antibodies Mar 05 2020 This book is a printed edition of the Special Issue "Monoclonal Antibodies" that was published in Antibodies

Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities Jun 07 2020 Dengue is a tropical, mosquito borne flavivirus infection and a leading public health problem in India. Four serotypes DEN1-4 cause high morbidity and mortality. Dengue is a spherical, lipid enveloped, positive stranded RNA virus having a 10200 Kb RNA genome coding for three structural (capsid C, premembrane PrM, and envelope E) and seven nonstructural proteins. Early, sensitive and specific diagnosis is paramount for patient management, prevention of complications, etiologic investigation and disease control. Early diagnosis is achieved by NS1 antigen detection, nucleic acid amplification and virus isolation. Diagnosis after five days is conferred by IgM/IgG based serological techniques such as ELISA, hemagglutination inhibition, complement fixation and neutralization test. The aim of this study is to compare serological and nucleic acid based methods for early diagnosis of dengue and differentiation of serotypes. For this, Dengue was diagnosed using NS1 antigen, IgM/IgG LF-ICT, IgM ? capture ELISA, RT-PCR and tests were compared. M-PCR was done to identify serotypes.

Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities Oct 04 2022 Dengue is a tropical, mosquito borne flavivirus infection and a leading public health problem in India. Four serotypes DEN1-4 cause high morbidity and mortality. Dengue is a spherical, lipid enveloped, positive stranded RNA virus having a 10200 Kb RNA genome coding for three structural (capsid C, premembrane PrM, and envelope E) and seven nonstructural proteins. Early, sensitive and specific diagnosis is paramount for patient management, prevention of complications, etiologic investigation and disease control. Early diagnosis is achieved by NS1 antigen detection, nucleic acid amplification and virus isolation. Diagnosis after five days is conferred by IgM/IgG based serological techniques such as ELISA, hemagglutination inhibition, complement fixation and neutralization test. The aim of this study is to compare serological and nucleic acid based methods for early diagnosis of dengue and differentiation of serotypes. For this, Dengue was diagnosed using NS1 antigen, IgM/IgG LF-ICT, IgM ? capture ELISA, RT-PCR and tests were compared. M-PCR was done to identify serotypes.

Immunopathology of Chronic Bacterial and Viral Diseases Prevalent in Latin America Nov 24 2021 We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies (IUIS). Prof. Leopoldo Santos-Argumedo is the President of the Latin American Association of Immunology (ALAI); Prof. Rosana Pelayo is the President of Sociedad Mexicana De Inmunología (SMI) and Prof. Luis García is a former ALAI President.

Fields' Virology Jul 29 2019 Accompanying CD-ROM has same title as book.

Naturally Occurring Antibodies (NABs) May 07 2020 This volume illustrates the functional properties of NABs. Authors from pioneering groups report in their chapters on the tissue homeostatic, tissue regenerating and regulatory properties of NABs and NABs in pooled human IgG. Scientists interested in the regulation and modulation of components of the immune system found a whole variety of NABs to cytokines with regulatory and protective functions and NABs that modulate, e.g., dendritic cells, regulatory T cells, B cells and granulocytes. Considering the large plasma pools and initial difficulties in preparing IVIG that does not induce adverse effects upon infusion into recipients, this volume ends with a historical chapter on how pooled human plasma was fractionated and the IgG component pretreated for a safe intravenous application.

Comprehensive Textbook of Infectious Diseases Oct 12 2020

Molecular Detection of Human Viral Pathogens Feb 13 2021 Despite being recognized and fought against over countless centuries, human viral pathogens continue to cause major public health problems worldwide—killing millions of people and costing billions of dollars in medical care and lost productivity each year. With contributions from specialists in their respective areas of viral pathogen research, Molecular Detection of Human Viral Pathogens provides a reliable reference on molecular detection and identification of major human viral pathogens. Each chapter briefly reviews the classification, epidemiology, clinical features, and diagnosis of one related viral pathogen or a group of them. The clinical sample collection and preparation procedures are outlined, and a selection of representative stepwise molecular detection protocols is covered. The chapters conclude with a discussion on further research requirements relating to improved diagnosis. With its judicious selection of streamlined, ready-to-use protocols for major human viral pathogens—including commercial kits—Molecular Detection of Human Viral Pathogens is an indispensable tool for medical, veterinary, and industrial laboratory scientists involved in virus determination.

Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition Oct 31 2019 Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Life Sciences—Muscle, Membrane, and General Microbiology. The editors have built Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Life Sciences—Muscle, Membrane, and General Microbiology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences: Muscle, Membrane, and General Microbiology: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Neurology in Tropics (e-Book) Dec 14 2020

Human Emerging and Re-emerging Infections, 2 Volume Set Aug 10 2020 Emerging and re-emerging pathogens pose several challenges to diagnosis, treatment, and public health surveillance, primarily because pathogen identification is a difficult and time-consuming process due to the “novel” nature of the agent. Proper identification requires a wide array of techniques, but the significance of these diagnostics is anticipated to increase with advances in newer molecular and nanobiotechnological interventions and health information technology. Human Emerging and Re-emerging Infections covers the epidemiology, pathogenesis, diagnostics, clinical features, and public health risks posed by new viral and microbial infections. The book includes detailed coverage on the molecular mechanisms of pathogenesis, development of various diagnostic tools, diagnostic assays and their limitations, key research priorities, and new technologies in infection diagnostics. Volume 1 addresses viral and parasitic infections, while volume 2 delves into bacterial and mycotic infections. Human Emerging and Re-emerging Infections is an invaluable resource for researchers in parasitologists, microbiology, Immunology, neurology and virology, as well as clinicians and students interested in understanding the current knowledge and future directions of infectious diseases.