

Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

The COVID-19 pandemic has reminded the world that infectious diseases are still important. The last 40 years have experienced the emergence of new or resurging viral diseases such as AIDS, ebola, MERS, SARS, Zika, and others. These diseases display diverse epidemiologies ranging from sexual transmission to vector-borne transmission (or both, in the case of Zika). This book provides an overview of recent developments in the detection, monitoring, treatment, and control of several viral diseases that have caused recent epidemics or pandemics. 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

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

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.

Emerging and Reemerging Viral Pathogens: Fundamental and Basic Virology Aspects of Human, Animal and Plant Pathogens, Volume One presents new research information on viruses and their impact on the scientific community. It provides a reference book on certain viruses in humans, animals and vegetal, along with a comprehensive discussion on interspecies interactions. The book then looks at the drug, vaccine and bioinformatical strategies that can be used against these viruses, giving the reader a clear understanding of transmission. The book's end goal is to create awareness that the appearance of newly transmissible pathogens is a global risk that requires shared/adoptable policies for prevention and control. Covers most emerging viral disease in humans, animals and plants Provides the most advanced tools and techniques in molecular virology and the modeling of viruses Creates awareness that the appearance of new transmissible pathogens is a global risk Highlights the need to adopt shared policies for the prevention and control of infectious diseases

Cumulated Index Medicus
Rabies

A Global Perspective on Vaccines: Priorities,

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

Challenges and Online Information

A Statistical Physics Approach

*Emerging and Eco-Friendly Approaches for
Waste Management*

Biological sciences. Part B

Each year, the Annual BCI Research Award recognizes the top n projects in brain-computer interface (BCI) research. This book contains summaries of these projects from the 2017 BCI Research Award. Each chapter is written by the group that submitted the project that was nominated, and introduction and discussion chapters provide supporting information and explore trends that are reflected in the annual awards each year. One of the prominent trends in recent years has been BCIs for new patient groups, and many chapters in this book present emerging research directions that might become more prevalent in the near future.

This book brings together the world's leading authorities on tumor immunology. This book describes the basic immunology principles that form the foundation of understanding how the immune system recognizes and rejects tumor cells. The role of the innate and adaptive immune responses is discussed and the implications of these responses for the design of clinical strategies to combat cancer are illustrated.

The index is based on citations selected from the corresponding monthly issue of Index Medicus.

Index Medicus

Animal model studies on viral infections

Virion Structure and Infection

ECAB Post-transplantation Infection - E-Book

Preventing Disease & Protecting Health

Psychopharmacology Bulletin

Viral hemorrhagic fevers have captured the imagination of the public and made their way into popular books and movies by virtue of their

extreme virulence and mysterious origins. Since 2001, concerns have grown about the potential use of many hemorrhagic fever viruses as biological weapons. This has led to a resurgence in research to develop improv

Dengue is the most important mosquito-transmitted viral disease in humans. Half of the world population is at risk of infection, mostly in tropical and sub-tropical areas. The World Health Organization (WHO) estimates that 50 to 100 million infections occur yearly, with 50,000 to 100,000 deaths related to dengue, mainly in children. Recent estimates show higher numbers, up to three times more, with 390 million estimated dengue infections per year, among which 96 million apparent infections (Bhatt et al. 2013). Initially localized to South-East Asia, dengue virus (DENV) started its spread in Latin America in the 80's. Little is known about DENV spread in Africa, but multiple seroprevalence surveys over several years are now clearly showing endemic areas in East and West Africa (Brady et al. 2013). Finally, due to global warming and intense traveling there is a risk of global spread towards more temperate regions, and both US Key islands (FL) and southern Europe recently faced DENV outbreaks. There are currently no specific treatments or vaccines available. Even though several dengue vaccines are in the pipeline, clear correlates of protection are still lacking. The recent failure of the live-

attenuated Sanofi vaccine Phase 2b trial (Sabchareon et al. 2013) and the lack of correlation between clinical protection and in vitro neutralization assays, clearly underlines the necessity to better understand the role of the different components of the immune system in protection against dengue virus infection and the requirement for the development of additional and/or improved predictive assays. The aim of this research topic is to provide novel data, opinions and literature reviews on the best immune correlates of protection and recent advances in the immune response to DENV infection that can allow rapid progress of dengue vaccines. Authors can choose to submit original research papers, reviews or opinions on pre-clinical or clinical observations that will help unify the field, with perspectives from epidemiology, virology, immunology and vaccine developers. This research topic will discuss different aspects of the protective immune response to DENV that can influence vaccine development. It will include a review of epidemiological data generated in the field, which will address spatio-temporal diversity of DENV epidemics, the importance of cross-reactive protection and of the time-interval between infections as a predictor of disease. It will further include a review of the role of both the innate and adaptive immunity in DENV infection control, and discuss the usefulness of new improved animal models in dissecting the role of

each immunological compartment, which will help define new correlate of immune protection. New data concerning the DENV structure and anti-dengue antibody structure will address the necessity of improved neutralization assays. The ultimate test to prove vaccine efficacy and study immune correlates of protection in humans before large trials will open up the discussion on human DENV challenges using controlled attenuated viral strains. Finally, the role of vaccines, administered in flavi-immune populations, in the modification of future epidemics will also be approached and will include novel studies on mosquitoes infection thresholds.

This book presents a broad survey of models for critical and catastrophic phenomena in the geosciences, with strong emphasis on earthquakes. It assumes the perspective of statistical physics, which provides the theoretical frame for dealing with complex systems in general. This volume addresses graduate students wishing to specialize in the field and researchers working or interested in the field having a background in the physics, geosciences or applied mathematics.

Vaccines E-Book

Mathematical Reviews

Advances in Flavivirus Research

Scientific Basis of the Disease and Its

Management

Modelling Critical and Catastrophic Phenomena in

Geoscience

Advances in Clinical Cardiovascular Imaging,
Echocardiography & Interventions

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. Dengue Virus Disease: From Origin to Outbreak provides a detailed accounting of one of the world's fastest growing infections. According to the World Health Organization, Dengue virus incidence has increased 30-fold over the past 50 years, with up to 50 to 100 million infections occurring annually in over 100 endemic countries. This estimate puts nearly half the world's population at risk. This book reviews the history, clinical and diagnostic aspects of dengue virus, also presenting our current knowledge on the pathophysiology of severe dengue and addressing the importance of dengue virus infections in those traveling to parts of the world where it is endemic. Covers every important aspect of Dengue virus disease, from biological, to its social and economic impacts Highlights the unique aspects of Dengue virus infection and the evolving nature of our understanding of the virus Provides a complete description of Dengue virus disease, with details on more recent outbreaks, clinical features, first hand experiences, treatment modalities, and recent novel treatment regimens Gives insights into the detailed psychological

impact the disease has caused in outbreak regions Rapid industrialization is a serious concern in the context of a healthy environment. With the growth in the number of industries, the waste generated is also growing exponentially. The various chemical processes operating in the manufacturing industry generate a large number of by-products, which are largely harmful and toxic pollutants and are generally discharged into the natural water bodies. Once the pollutants enter the environment, they are taken up by different life forms, and because of bio-magnification, they affect the entire food chain and have severe adverse effects on all life forms, including on human health. Although, various physico-chemical and biological approaches are available for the removal of toxic pollutants, unfortunately these are often ineffective and traditional clean up practices are inefficient. Biological approaches utilizing microorganisms (bacterial/fungi/algae), green plants or their enzymes to degrade or detoxify environmental pollutants such as endocrine disruptors, toxic metals, pesticides, dyes, petroleum hydrocarbons and phenolic compounds, offer eco- friendly approaches. Such eco-friendly approaches are often more effective than traditional practices, and are safe for both industry workers as well as environment. This book provides a comprehensive overview of various toxic environmental pollutants

from a variety natural and anthropogenic sources, their toxicological effects on the environment, humans, animals and plants as well as their biodegradation and bioremediation using emerging and eco-friendly approaches (e.g. Anammox technology, advanced oxidation processes, membrane bioreactors, membrane processes, GMOs), microbial degradation (e.g. bacteria, fungi, algae), phytoremediation, biotechnology and nanobiotechnology. Offering fundamental and advanced information on environmental problems, challenges and bioremediation approaches used for the remediation of contaminated sites, it is a valuable resource for students, scientists and researchers engaged in microbiology, biotechnology and environmental sciences.

*Frontiers in Clinical Drug Research: Anti-Infectives
Epidemiology, Detection and Control*

Atlas of Head and Neck Pathology E-Book

Current Perspectives on Viral Disease Outbreaks

*Volume 1: Fundamental and Basic Virology Aspects
of Human, Animal and Plant Pathogens*

*Journal of the Institution of Electronics and
Telecommunication Engineers*

This book is a printed edition of the Special Issue "Advances in Flavivirus Research" that was published in Viruses The first review series in virology and published since 1953, Advances in Virus

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

Research covers a diverse range of in-depth reviews, providing a valuable overview of the field. Contributions from leading authorities Comprehensive reviews for general and specialist use First and longest-running review series in virology

The influenza virus poses a threat to human health and is responsible for global epidemics every year. In addition to seasonal infections, influenza can cause occasional pandemics of great consequence when novel viruses are introduced into humans. Despite the implementation of comprehensive vaccination programs, influenza viruses continue to pose an important and unpredictable global public health threat. They are one of the most significant causes of morbidity and mortality each year and have a significant economic impact. In recent years, research has been conducted to find alternative approaches to influenza vaccine development, including the generation of universal vaccines. Notably, significant progress in the field of influenza infection, transmission, and

immunity have contributed to our understanding of influenza biology, and to expanding the technological approaches for the generation of more efficient strategies against influenza infections. Moreover, highly remarkable developments have been made in the implementation of new methodologies to evaluate the efficiency of vaccines and improve them for use on domestic animals such as poultry, horses, dogs or pigs. This enables us to decrease the exposure of humans to potentially pandemic viruses. The articles in this Special Issue will address the importance of influenza to human health and the advances in influenza research that have led to the development of better therapeutics and vaccination strategies.

Protective Immune Response to Dengue Virus Infection and Vaccines:
perspectives from the field to the bench

Influenza Virus and Vaccination
Emerging and Reemerging Viral Pathogens
Lipid Nanoparticles as a Novel Strategy to Deliver Bioactive Molecules
Fields' Virology

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

A Textbook of Cardiology

Frontiers in Clinical Drug Research – Anti Infectives is an eBook series that brings updated reviews to readers interested in learning about advances in the development of pharmaceutical agents for the treatment of infectious diseases. The scope of the eBook series covers a range of topics including the medicinal chemistry, pharmacology, molecular biology and biochemistry of natural and synthetic drugs employed in the treatment of infectious diseases. Reviews in this series also include research on multi drug resistance and pre-clinical / clinical findings on novel antibiotics, vaccines, antifungal agents and antitubercular agents. Frontiers in Clinical Drug Research – Anti Infectives is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critically important information for developing clinical trials and devising research plans in the field of anti infective drug discovery and epidemiology. The first volume of this series features reviews that cover a variety of topics including: -Bacteriophage research against gram positive bacteria -Edible vaccines -Novel antibiotics against gram negative bacteria -Antimicrobial resistance among enteric pathogens

Rabies remains one of the most important global public health problems worldwide. Although many important developments have been made over the past century to combat this ancient disease, Rabies has become a re-emergent infection in the developing world. The 3e updates this classic reference with comprehensive coverage of the molecular virology, pathogenesis, vaccines, public health, immunology,

and epidemiology of Rabies. Chapters new to this edition cover biothreat/bioterrorism, successful wildlife control and therapies of human Rabies, and the emergence of new lyssavirus species Rabies provides physicians, public health advisors, epidemiologists, research scientists and veterinarians with single source, authoritative and up-to-date information on the diagnosis, treatment, control and prevention of this fatal infectious virus that continues to kill over 70,000 people a year. Rabies remains a significant global public health risk with over 70,000 deaths a year Alan Jackson a well-known researcher in this subject and has gathered a team of experts to detail the science, treatment, and control of Rabies Completely revised, the 3e presents Rabies as a re-emergent infection with greater emphasis on a global perspective of the virus Provides essential information to anyone diagnosing, treating, controlling and preventing the disease 70 full-color figures highlight important information in microscopic studies Accompanying CD-ROM has same title as book.

*The Molecular Repertoire of Adenoviruses I
From Origin to Outbreak*

*Genetics and Genomics of Papaya
Detection, Surveillance, and Control
DNA Vaccines*

Brain-Computer Interface Research

This volume reviews and updates the state of knowledge on arboviruses in general and the West Nile Virus in particular. It includes reviews of the findings of agencies and individuals who worked on the detection, surveillance,

control, treatment, management and other aspects of the West Nile Virus in the summer of 2000. The papers seek to enhance understanding of the particular problems associated with WNV, outline effective co-ordination efforts, and discuss intervention options.

This book reviews various aspects of papaya genomics, including existing genetic and genomic resources, recent progress on structural and functional genomics, and their applications in papaya improvement. Organized into four sections, the volume explores the origin and domestication of papaya, classic genetics and breeding, recent progress on molecular genetics, and current and future applications of genomic resources for papaya improvement. Bolstered by contributions from authorities in the field, Genetics and Genomics of Papaya is a valuable resource that provides the most up to date information for papaya researchers and plant biologists.

Understanding viral replication and pathogenicity properties in infected individuals is a major mission of animal virology. Animal models are essential to analyze the in vivo viral characteristics

and to develop countermeasures against viruses. To fight against a wide variety of viruses, basic studies with specific and/or common approaches are required.

This Research Topic collects articles that describe studies on numerous virus species at various stages toward animal experiments: (i) description/evaluation/new challenges of animal model studies; (ii) experimental material/methods for animal model studies; (iii) observations for upcoming animal model studies.

Numbers of DNA and RNA viruses such as HHV-6, HPV, Ebola virus, HCV, dengue virus, HTLV-1, HIV-1, SIV, and measles virus are covered by this special issue consisting of original research, methods, review, mini-review, and opinion articles. All readers would understand, we believe and hope, that animal model studies are critical for current virology as always.

Vaccines

Dengue Virus Disease

Proceedings

Archives Internationales de

Pharmacodynamie Et de Therapie

Travelers' Vaccines

Effect of Ayurveda interventions in

bronchial asthma and cerebral palsy

Summaries at end of articles.

Atlas of Head and Neck Pathology delivers authoritative, highly visual guidance for effectively and accurately diagnosing a wide range of head and neck problems. This comprehensive resource features extensive, high-quality images depicting the histologic, immunohistochemical, cytologic, and diagnostic imaging appearance of every type of head and neck pathology. With a consistent, practical organization and succinct, bulleted format, the Atlas continues to be the resource general pathologists and specialists count on for reliable, easy-to-find answers. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Reach accurate diagnostic conclusions easily with a consistent, user-friendly format that explores each entity's clinical features, pathologic features (gross and microscopic), ancillary studies, differential diagnoses, and prognostic and therapeutic considerations. Glean all essential, current, need-to-know information with sweeping revisions that include additional images shown in the frozen section, more content on odontogenic lesions and neoplasms, and inclusion of newly described entities such as IgG-associated salivary gland diseases, mammary analog secretory carcinoma, and more.

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

Review expanded coverage of critical areas with additional chapters on oral cavity and oropharynx, nasopharynx, and neck. Apply the most current staging of cancers from College of American Pathologists (TNM) and American Joint Committee on Cancer (AJCC).

This book provides readers with an overview of the design, fabrication, simulation, and reliability of nanoscale semiconductor devices, MEMS, and sensors, as they serve for realizing the next-generation internet of things. The authors focus on how the nanoscale structures interact with the electrical and/or optical performance, how to find optimal solutions to achieve the best outcome, how these apparatus can be designed via models and simulations, how to improve reliability, and what are the possible challenges and roadblocks moving forward.

Dengue

Proceedings of the Indian National Science Academy

General Principles of Tumor Immunotherapy

Outlook and Challenges of Nano Devices, Sensors, and MEMS

Basic and Clinical Applications of Tumor Immunology

Rev. ed. of: Travelers' vaccines / Elaine C. Jong, Jane N. Zuckerman. 2004.

This publication contains a number of papers which consider the public health role of vaccines in improving the health

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

of the world's populations, and looks at the challenges of using immunisation to combat emerging and re-emerging diseases. Issues discussed include the innovative use of vaccines against diseases such as meningococcal infection in Africa, Haemophilus influenza type b, varicella, and hepatitis, efforts to develop a new generation of vaccines against cholera and typhoid, shigella and Helicobacter pylori, as well as developments in the quest for vaccines against tuberculosis, HIV/AIDS, dengue, malaria, and hookworm. It also deals with the use of vaccines to fight bioterrorism attacks; regulatory and safety issues; financing issues, impact of health sector reform and the sustainability of immunisation programmes. ECAB Post-transplantation Infection - E-Book

Viral Hemorrhagic Fevers

West Nile Virus

Advances in Virus Research

Population Sciences

A State-of-the-Art Summary 7

For decades this virus system has served - and continues to do so - to pioneer investigations on the molecular biology, biochemistry and genetics of mammalian cell systems. This three volume work presents an up-to-date account of recent basic research in one of the most important experimental systems for biochemical, cell biological, genetic, virological,

Where To Download Ravi Prakash Et Al J Bioequiv Availab 2013 5 2

and epidemiological investigations in mammalian molecular biology. In this, the first of the three volumes, an overview of adenovirus research is presented with emphasis on the structure and assembly of adenoviruses, viral infections, and viral gene products. The chapters have been written by an international group of leading experts in their respective fields of interest.