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Sara Sawyer, Ph.D. - Zika, Ebola, and Dengue: Viruses Emerging from the Human - Animal Interface**Issues in Biotechnology CMB 190 Lecture 21 Medical Biotechnology Bioweapons** Clinical Practice and Day One Summary (4 of 6) 3.13. Picornaviruses and Enteroviruses - Medical Microbiology ~~ARENAVÍRUS - A NOVA AMEÇA À HUMANIDADE~~ If the Coronavirus is Mutating, What Does That Mean For Us? *Picornavirus Overview - SketchyMicro (USMLE Microbiology Review) Viral Hemorrhagic Fevers - Elias Maroun, MD* **Zombie Apocalypse or Seasonal Flu - COVID-19 CoronaVirus 2020** Arenavirus (Mnemonic) *Microbiology - Emerging diseases*

Classification of Viruses Viral Genome and Replication Scheme Video Lesson Transcript Study c

Emerging respiratory viruses - Professor Albert Osterhaus**Infection Basics (Lecture 12)** Issues in Biotechnology CMB 190Lecture 20 Pandemic Flu and Emergent Diseases *IGS Webinar, Evolution: Host Virus Perspective RAKCOMS COVID -19 WEBINAR SERIES - 1 A Diagnostic Approach to Congenital Infections in the Neonate -- Jorge Lujan-Zilbermann, MD Emerging Infectious Disease: The Viral Hemorrhagic Fevers* ~~Emerging Diseases from Animals to Humans by CJ Peters~~

2018 Dean's Excellence in Research**Arenaviruses I The Epidemiology Molecular**

Arenaviruses I: The Epidemiology, Molecular and Cell Biology of

Arenaviruses (Current Topics in Microbiology and Immunology) Softcover reprint of the original 1st ed. 2002 Edition by M.B.A. Oldstone (Editor)

Arenaviruses I: The Epidemiology, Molecular and Cell ...

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Since the subject of arenaviruses was visited by Current Topics in Microbiology and Immunology 14 years ago, enormous advances have been made in this area. The receptor for several arenaviruses, alpha-dystroglycan, was identified, the replication strategy of these viruses was...

Arenaviruses I: The Epidemiology, Molecular and Cell ...

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Arenaviruses I - The Epidemiology, Molecular and Cell ...

Arenaviruses. I. The epidemiology molecular and cell biology of arenaviruses. Introduction. Oldstone MB. PMID: 11987810 [PubMed - indexed for MEDLINE] Publication Types: Review; MeSH Terms. Animals; Arenaviridae Infections/epidemiology* Arenaviridae Infections/physiopathology; Arenaviridae Infections/virology* Arenavirus/genetics* Arenavirus/pathogenicity

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Arenaviruses possess single stranded bi-segmented RNA genomes. The large (L) genomic segment (?7,200 nt) encodes the viral RNA-dependant RNA polymerase and a zinc-binding protein. The small (S) genomic segment (?3,500 nt) encodes the nucleocapsid protein (N) and the glycoprotein precursor (GPC) in two non-overlapping reading frames of opposite polarities.

Molecular Epidemiology of Arenaviruses | SpringerLink

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studying viral gene function and viral biology is well underway.

Arenaviruses I | SpringerLink

The Molecular Epidemiology Of Viruses provides a comprehensive introduction to the use of genetic methods in molecular epidemiology and in-depth examples of analyses from many viruses. This book is of interest to researchers in the fields of infectious disease, virology, microbiology, evolutionary biology, epidemiology and molecular biology as well as anyone interested in tracking the spread of disease.

The Molecular Epidemiology of Human Viruses | Thomas ...

The Arenaviridae are a family of viruses whose members are generally associated with rodent-transmitted diseases in humans. Each virus usually is associated with a particular rodent host species in which it is maintained. Arenavirus infections are relatively common in humans in some areas of the world and can cause severe illnesses.

Arenaviridae | Viral Hemorrhagic Fevers (VHFs) | CDC

All arenaviruses contain a major nucleocapsid-associated protein of molecular weight 60-68,000 with two glycoproteins in the outer viral envelope. These envelope glycoproteins are not primary gene products but arise by proteolytic cleavage of a larger, 75,000 molecular weight glycoprotein precursor polypeptide (GPC).

Arenavirus - an overview | ScienceDirect Topics

An arenavirus is a bisegmented ambisense RNA virus that is a member of the family Arenaviridae. These viruses infect rodents and occasionally humans. A class of novel, highly divergent arenaviruses, properly known as reptarenaviruses, have also been discovered which infect snakes to produce inclusion body disease. At least eight arenaviruses are known to cause human disease. The diseases derived from arenaviruses range in severity. Aseptic meningitis, a severe human disease that causes inflammat

Arenavirus - Wikipedia

To explore changes in molecular epidemiology of acute viral hepatitis B (AVH-B), hepatitis B virus (HBV) genotypes were determined by direct sequencing of the Pre-S-S region in 123 consecutive patients, with AVH-B observed in Naples or its surroundings in the last decade (group AVH-B) and in 123 HBV chronic carriers [chronic carrier of HBV (CC-B) group] from the same areas, who had been ...

Factors affecting the changes in molecular epidemiology of ...

Arenaviruses are single-stranded ribonucleic acid (RNA) viruses that cause chronic infections in rodents and zoonotically acquired disease in humans through rodent excreta, especially urine. The...

Arenaviruses: Practice Essentials, Background, Pathophysiology

Phylogenetic analyses of Z protein gene nucleotide sequences and RNA-dependent RNA polymerase gene nucleotide sequences grouped Pirital

virus with Pichindé virus (a South American arenavirus which, like Pirital virus, does not appear to be pathogenic for humans) and placed the Pirital-Pichindé lineage in a sister relationship to a lineage represented by Guanarito virus and the three other arenaviruses known to cause hemorrhagic fever in South America.

Phylogeny of the Venezuelan arenaviruses.
Sequences of arenaviruses were detected in 2 species of pygmy mice, Mus baoulei and Mus mattheyi. Jirandogo, the sequence found in Mus baoulei , is phylogenetically close to LASV clade viruses. However, the maximum amino acid difference of 18% in NP between Jirandogo and LASV exceeds the 12% cutoff criteria, and therefore places it outside the LASV clade (14).

Two Novel Arenaviruses Detected in Pygmy Mice, Ghana ...
Epidemiology is the study and analysis of the distribution (who, when, and where), patterns and determinants of health and disease conditions in defined populations.. It is a cornerstone of public health, and shapes policy decisions and evidence-based practice by identifying risk factors for disease and targets for preventive healthcare.Epidemiologists help with study design, collection, and ...

Epidemiology - Wikipedia
Molecular epidemiology of Cryptosporidium in livestock animals and humans in the Ismailia province of Egypt Vet Parasitol. 2013 Mar 31;193(1-3):15-24. doi: 10.1016/j.vetpar.2012.12.015. Epub 2012 Dec 20. Authors Yosra A Helmy 1 ...

Since the subject of arenaviruses was visited by Current Topics in Microbiology and Immunology 14 years ago, enormous advances have been made in this area. The receptor for several arenaviruses, alpha-dystroglycan, was identified, the replication strategy of these viruses was decoded, and application of a reverse genetics system for studying viral gene function and viral biology is well underway. In addition to reviewing these advances, Volume I includes discussion of arenaviral molecular phylogeny, reservoirs in rodents and clinical diseases caused by both new world and old world arenaviruses.

Advances in DNA sequencing and phylogenetic inference have created powerful methods to investigate many dangerous human viruses. The Molecular Epidemiology Of Viruses provides a comprehensive introduction to the use of genetic methods in molecular epidemiology and in-depth examples of analyses from many viruses. This book is of interest to researchers in the fields of infectious disease, virology, microbiology, evolutionary biology, epidemiology and molecular biology as well as anyone interested in tracking the spread of disease.

In this volume, a distinguished international group of contributors

present the latest molecular, organismal, and epidemiological research on arenaviruses. Their work will broaden both the clinician's and the researcher's knowledge of basic mechanisms of immunological tolerance, viral immunosuppression, the nature of protective immune responses to vaccination, and viral effects on cell functions.

This volume offers an overview of the processes of zoonotic viral emergence, the intricacies of host/virus interactions, and the role of biological transitions and modifying factors. The themes introduced here are amplified and explored in detail by the contributing authors, who explore the mechanisms and unique circumstances by which evolution, biology, history, and current context have contrived to drive the emergence of different zoonotic agents by a series of related events.

Since the subject of arenaviruses was visited by Current Topics in Microbiology and Immunology 14 years ago, enormous advances have been made in this area. The receptor for several arenaviruses, alpha-dystroglycan, was identified, the replication strategy of these viruses was decoded, and application of a reverse genetics system for studying viral gene function and viral biology is well underway. In addition to reviewing these advances, Volume I includes discussion of arenaviral molecular phylogeny, reservoirs in rodents and clinical diseases caused by both new world and old world arenaviruses.

Fenner and White's Medical Virology, Fifth Edition provides an integrated view of related sciences, from cell biology, to medical epidemiology and human social behavior. The perspective represented by this book, that of medical virology as an infectious disease science, is meant to provide a starting point, an anchor, for those who must relate the subject to clinical practice, public health practice, scholarly research, and other endeavors. The book presents detailed exposition on the properties of viruses, how viruses replicate, and how viruses cause disease. These chapters are then followed by an overview of the principles of diagnosis, epidemiology, and how virus infections can be controlled. The first section concludes with a discussion on emergence and attempts to predict the next major public health challenges. These form a guide for delving into the specific diseases of interest to the reader as described in Part II. This lucid and concise, yet comprehensive, text is admirably suited to the needs of not only advanced students of science and medicine, but also postgraduate students, teachers, and research workers in all areas of virology. Features updated and expanded coverage of pathogenesis and immunity Contains the latest laboratory diagnostic methods Provides insights into clinical features of human viral disease, vaccines, chemotherapy, epidemiology, and control

The importance attached to rapidly developing our biodefensive capabilities has recently resulted in a significantly increased funding for biodefense research. Accordingly, researchers will respond

with an effort equal to the challenge, producing an impressive body of findings. To ensure that this effort continues in the most efficient manne

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

Security sensitive microbes (viruses, bacteria, fungi, and parasites) and toxins, which are often referred to as the select agents and toxins, have the capacity to cause serious illness and death in humans, animals, and plants. Throughout history, these microbes and toxins have been exploited in one form or another as biowarfare and bioterror agents that create fear and panic well beyond any actual physical damages they might cause. Manual of Security Sensitive Microbes and Toxins provides comprehensive, state-of-the-art coverage of microbes and toxins of biosecurity concern. The ultimate goal is to increase our awareness of these agents and enhance our preparedness against any future bio-emergencies. The book begins with an introduction containing a brief overview of the historical aspects of security sensitive microbes and toxins. This is followed by a concise summary of the current status in relation to the regulation of security sensitive microbes and toxins and a discussion of future development trends. The book is divided into seven parts: Microbes and Toxins Affecting Humans and Animals: Viruses Microbes and Toxins Affecting Human and Animals: Bacteria Microbes and Toxins Affecting Human and Animals: Fungus and Parasite Microbes and Toxins Affecting Human and Animals: Toxins Microbes Affecting Animals: Viruses Microbes Affecting Animals: Bacteria Microbes Affecting Plants Written by experts in the relevant areas of research, the chapters are authoritative reviews, each one covering a single microbe or toxin with respect to its classification, biology, epidemiology, pathogenesis, identification, diagnosis, treatment, and prevention. The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin.

Striking changes have occurred in the world since the publication of the last edition of Viral Infections of Humans. The global population is rapidly approaching 8 billion; climate change is leading to the introduction of new hosts, vectors and virus diseases heretofore never seen in many parts of the world; technological advances have revolutionized the ability to recognize and characterize viruses new and old; vaccines are altering the epidemiological landscape of the diseases they target, in some cases raising the hope of their eradication and remarkably powerful computational tools are enabling not only detection of outbreaks of disease much sooner than in the

past but also, through complex mathematical modeling, more accurate prediction of their potential impact. The new Fifth Edition of Viral Infections of Humans captures the both the excitement and frustration of the dynamic struggle between humankind and the viruses that continue to cause immense suffering. It presents the latest concepts, methods and technologies in epidemiology, detection, investigation, modeling and intervention. Updated and entirely new chapters by dozens of experts across the field provide analytic summaries of current knowledge of viruses and prions causing acute syndromes, chronic illnesses and/or malignancies. In sum, this ambitiously expanded volume offers a uniquely comprehensive perspective on viruses in humans, from agents of classic diseases (e.g., hepatitis, measles, polio, rabies and yellow fever), to those with greatest pandemic impact (e.g., influenza and human immunodeficiency virus), to those discovered relatively recently (e.g., henipavirus, metapneumovirus and norovirus). The new Fifth Edition of Viral Infections of Humans is an invaluable reference for students, fellows and established professionals in the fields of microbiology, public health and infectious disease epidemiology, medicine and health policy.