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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

Arenaviruses. I. The epidemiology molecular and cell ...

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Arenaviruses I : the epidemiology, molecular and cell ...

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

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.

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 Pichind é virus (a South American arenavirus which, like Pirital virus, does not appear to be pathogenic for humans) and placed the Pirital-Pichind é 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 ...

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