

## Orthopoxviruses Pathogenic For Humans Author Sn Shchelkunov Published On October 2005

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### Orthopoxviruses Pathogenic For Humans Author

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### Orthopoxviruses Pathogenic for Humans - Google Books

Orthopoxviruses Pathogenic for Humans covers those viruses capable of causing disease in man, including monkeypox, smallpox, cowpox, and vaccinia. The coverage of each virus is comprehensive, covering the biology, molecular biology, and ecology of the virus as well as the clinical and epidemiological aspects of these viruses in humans and animals.

### Orthopoxviruses Pathogenic for Humans | Springer

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Orthopoxviruses Pathogenic for Humans.. [N Shchelkunov S; S Marennikova S; W Moyer R] -- Covers those viruses capable of causing disease in man, including monkeypox, smallpox, cowpox, and vaccinia.

### Orthopoxviruses Pathogenic for Humans. (eBook, 2006 ...

Abstract: Orthopoxviruses Pathogenic for Humans covers those viruses capable of causing disease in man, including monkeypox, smallpox, cowpox, and vaccinia. The coverage of each virus is comprehensive, covering the biology, molecular biology, and ecology of the virus as well as the clinical and epidemiological aspects of these viruses in humans and animals.

### **Orthopoxviruses pathogenic for humans (Book, 2005 ...**

Orthopoxviruses belonging to the family of Poxviruses that infect humans are variola (smallpox), vaccinia, monkey pox and cowpox. Poxviruses are large (200–450 nm in size), brick- or ovoid-shaped double-stranded DNA viruses that are especially adapted to epidermal cells. Variola virus, the cause of small pox is the only one that affects humans exclusively, the others are zoonotic infections.

### **Orthopoxvirus - an overview | ScienceDirect Topics**

Olli Vapalahti. The genus Orthopoxvirus includes variola (smallpox) virus and zoonotic cowpox virus (CPXV). All orthopoxviruses (OPV) are serologically cross-reactive and cross-protective, and ...

### **(PDF) Orthopoxvirus Infections: Epidemiology, Clinical ...**

VARV, the most pathogenic species for humans, has the smallest genome of all the orthopoxviruses -. This suggests a potential possibility for emergence of a VARV-like variant from the currently existing zoonotic orthopoxviruses with longer genomes in the course of natural evolution.

### **An Increasing Danger of Zoonotic Orthopoxvirus Infections**

Orthopoxvirus is a genus of viruses in the family Poxviridae and subfamily Chordopoxvirinae. Vertebrates, including mammals and humans, and arthropods serve as natural hosts. Currently, 12 species are in this genus, including the type species Vaccinia virus. Diseases associated with this genus include smallpox, cowpox, horsepox, camelpox, and monkeypox. The most infamous member of the genus is ...

### **Orthopoxvirus - Wikipedia**

The Orthopoxviruses presents knowledge and comprehensive and integrated picture of orthopoxviruses. The book looks into the molecular biology of this genus of viruses, particularly, the structure and chemical composition of the virion, replication, morphogenesis, pathogenesis, pathology, and immunology of this virus' infections.

### **The Orthopoxviruses - 1st Edition**

The genus Orthopoxvirus of the family Poxviridae includes species pathogenic to humans, such as variola (VARV), monkeypox (MPXV), cowpox (CPXV), and vaccinia (VACV) viruses. VARV causes smallpox and is an exclusively anthroponotic agent.

### **Multiplex PCR detection and species differentiation of ...**

Furthermore, zoonotic orthopoxviruses have emerged as novel disease causing agents; monkeypox (MPXV) is passed human-to-human and is evolving to target the human immune system more effectively [ 27 ]. Camelpox, cowpox and buffalopox can also cause severe infections in humans [ 27 ].

### **Ectromelia-encoded virulence factor C15 specifically ...**

INFECTIOUS AGENT Smallpox is caused by variola virus, genus Orthopoxvirus. Other members of this genus that can infect humans are vaccinia virus, monkeypox virus, and cowpox virus. In 1980, the World Health Organization officially declared the worldwide eradication of smallpox.

### **Smallpox & Other Orthopoxvirus-Associated Infections ...**

OBJECTIVE: Variola virus, belonging to Orthopoxviridae family, is one of the most dangerous human pathogens that could be used as biological weapon. We have developed a new rapid assay, based upon Real-time PCR and melting temperatures analysis of amplicons, for the contemporary detection of Orthopoxvirus, VZV and HSV1-2, that are the most important infectious agents to be considered for differential diagnosis.

**[Rapid differential diagnosis of Orthopoxviruses and ...**

Shchelkunov S. N., Marennikova S. S., Moyer R. W. Orthopoxviruses Pathogenic for Humans. Berlin, Germany: Springer; 2005.

**EPIPOX: Immunoinformatic Characterization of the Shared T ...**

Poxviruses are brick or oval-shaped viruses with large double-stranded DNA genomes. Poxviruses exist throughout the world and cause disease in humans and many other types of animals. Poxvirus infections typically result in the formation of lesions, skin nodules, or disseminated rash.

**Poxvirus | CDC**

A screening assay for real-time LightCycler (Roche Applied Science, Mannheim, Germany) PCR identification of smallpox virus DNA was developed and compiled in a kit system under good manufacturing practice conditions with standardized reagents. In search of a sequence region unique to smallpox virus, the nucleotide sequence of the 14-kDa fusion protein gene of each of 14 variola virus isolates ...

**Real-Time PCR System for Detection of Orthopoxviruses and ...**

Orthologs of G1R are present in a variety of pathogenic orthopoxviruses, but not in vaccinia virus, and expression of any one of these viral proteins blocks NF- $\kappa$ B signaling in human cells. Thus, proteomic screening of variola virus has the potential to uncover modulators of the human innate antiviral responses.

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