

Rhabdoviruses

Molecular Taxonomy, Evolution, Genomics, Ecology, Host-Vector Interactions, Cytopathology and Control



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Rhabdoviruses are a diverse family of single stranded, negative sense RNA viruses that can successfully utilize a myriad of ecological niches, ranging from plants and insects, to fish and mammals. This virus family includes pathogens such as rabies virus, vesicular stomatitis virus and potato yellow dwarf virus that are of tremendous public health, veterinary, and agricultural significance. Due to the relative simplicity of their genomes and morphology, in recent years rhabdoviruses have become powerful model systems for studying molecular virology.

Written by a select group of world-renowned virologists, this book reviews all of the most recent advances in rhabdovirology providing a timely overview of the field. Most contributions are written from a molecular and genomic perspective and contain expert insights upon which to base future research efforts. Topics covered include: morphology, genome organization, transcription, virus replication, taxonomy, characterization, virus evolution, vesiculovirus, lyssavirus, ephemeroviruses, fish novirhabdoviruses, the sigma viruses of *Drosophila*, virus-host protein interaction of plant-adapted rhabdoviruses, cereal-infecting rhabdoviruses, and rabies prevention and control including lyssavirus vaccine development.

The book is a 'must read' for all virologists working on these and related negative sense RNA viruses. A recommended book for all biology, veterinary and medical libraries.

Chapter 1. Introduction. *Ralf G. Dietzgen and Ivan V. Kuzmin*

Chapter 2. Morphology, Genome Organization, Transcription and Replication of Rhabdoviruses. *Ralf G. Dietzgen*

Chapter 3. Taxonomy of Rhabdoviruses. *Ralf G. Dietzgen and Ivan V. Kuzmin*

Chapter 4. Genus Vesiculovirus. *Luis L. Rodriguez and Steven J. Pauszek*

Chapter 5. Genus Lyssavirus. *Ivan V. Kuzmin and Noel Tordo*

Chapter 6. Ephemeroviruses: Arthropod-borne Rhabdoviruses of Ruminants, With Large and Complex Genomes. *Peter J. Walker, Kim R. Blasdell and D. Albert Joubert*

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