

Special Issue

Pathogenesis of Flavivirus Infections

Message from the Guest Editor

Flavivirus infections provide an in-depth analysis of the interaction between flaviviruses and human and animal hosts, exploring mechanisms of cell lesions and disease. The Special Issue discusses viral structure, ecology, transmission, immune and genetic diversity of flaviviruses and their contribution to pathogenicity. It focuses on viral infection and replication, detailing how flaviviruses invade and replicate within host cells, the complex relationship with immune system, revealing its influence on pathogenesis. We welcome submissions exhaustively describing pathogenesis and immunopathogenesis related to clinical manifestations of flavivirus diseases, including severe complications like encephalitis and hemorrhagic syndromes. In-silico studies using computer simulation and related technologies are also encouraged. The Issue further covers therapeutic and prevention strategies, including antivirals, vaccines, and public health practices, essential for addressing flavivirus diseases. The Issue offers a comprehensive and up-to-date overview of flavivirus pathogenesis, providing fundamental information for diagnosis, treatment, and effective disease control.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Viruses (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

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