

## 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.

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### Guest Editor

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### Deadline for manuscript submissions

closed (31 August 2025)



## Viruses

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## About the Journal

### Message from the Editor-in-Chief

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### Editor-in-Chief

Dr. Eric O. Freed

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