

Special Issue

Molecular Research on Emerging Mosquito-Transmitted RNA Viruses

Message from the Guest Editors

Mosquito-transmitted RNA viruses (arboviruses), such as dengue, Japanese encephalitis, West Nile, yellow fever, Zika, chikungunya, Ross River, and Rift Valley fever, are becoming major public health concerns due to their global dispersion. In the context of increasing numbers of outbreaks and severity of infection, it is urgent to understand the mechanisms underlying enhanced virulence of arboviruses in humans.

Consequently, molecular research is important for improving our knowledge on viral and cellular factors that impact the pathogenicity of arboviruses in their mosquito vectors and mammalian hosts, including humans. In addition, the analysis of interdependent consequences of viral factors and host responses has the potential to reveal important pathways involved in the pathogenicity of arboviruses in humans. In this Special Issue, the contributors are warmly invited to publish their research works on molecular biology of arboviruses, molecular basis of their pathogenicity in link with the host–cell response to infection, and innate immune evasion strategies in arthropod vectors and mammalian hosts.

Guest Editors

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