

Special Issue

Arboviral Lifecycle 2025

Message from the Guest Editor

The increasing spread and incidence of arbovirus infections present significant public health challenges. Over recent decades, dengue has escalated to hyperendemic levels, while yellow fever has resurfaced with urban outbreaks. Additionally, the recent emergence and re-emergence of other arboviruses, such as the Oropouche virus (OROV), further complicate the public health landscape, underscoring the dynamic and evolving nature of these infections. Understanding the lifecycle of arboviruses is crucial to addressing these challenges. This encompasses not only the virus's transmission dynamics through vectors but also its interaction with hosts at various stages of infection. This Special Issue aims to explore and elucidate the intricacies of the arbovirus lifecycle, from viral entry into the mosquito vector to human infection and disease manifestation. Emphasizing the importance of comprehensive studies on vector biology, viral evolution, and host–pathogen interactions, we invite contributions that will enhance our understanding and lead to the development of more effective diagnostics, vaccines, and vector control strategies.

Guest Editor

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