Special Issue

Emerging Trends in Arbovirus Research: Diagnosis, Transmission, and Therapeutic Development

Message from the Guest Editor

Arboviruses, transmitted by arthropod vectors such as mosquitoes and ticks, represent a significant global health challenge. Diseases caused by these viruses, including Dengue, Zika, Chikungunya, Yellow Fever, and West Nile, have an increased incidence rate due to climate change, urbanization, and global travel. The rapid expansion of arboviral outbreaks necessitates advancements in their detection, prevention, and treatment. This Special Issue aims to bring together cutting-edge research focused on arbovirus pathogenesis, novel diagnostic tools, transmission dynamics, and the development of therapeutics and vaccines. Topics will include innovative molecular and serological diagnostic technologies, studies on vector ecology and virus–vector interactions, and the role of reservoirs in sustaining transmission cycles. Additionally, contributions on antiviral compounds, monoclonal antibodies, and vaccine development are welcome, alongside public health strategies and integrated approaches to mitigate arboviral disease burden. This Special Issue seeks to enhance our understanding of arbovirus biology and epidemiology while fostering the development of effective interventions.

Guest Editor

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

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