Special Issue

Emerging Trends in Arboviral Research: Surveillance, Diagnostics, Virus–Host Interactions, and Therapeutic Strategies

Message from the Guest Editors

Arboviruses, or arthropod-borne viruses, transmitted by vectors such as mosquitoes and ticks, pose significant public health threats globally. This Special Issue will highlight cutting-edge research in the field of arbovirology, encompassing both basic and applied studies. Contributions will explore advancements in diagnostics, surveillance, arbovirus viral evolution, and vector–host interactions, as well as the therapeutic development of arboviral diseases, such as dengue, Zika, chikungunya, yellow fever, and West Nile viruses. These viruses cause a wide range of diseases, from mild febrile illness to severe neurological complications, with increasing global incidence. By embracing a multidisciplinary approach, this Special Issue will foster a deeper understanding of arbovirus transmission dynamics, inform public health strategies, and guide the development of novel therapeutic and preventive measures. By addressing critical gaps in our knowledge and emphasizing innovative solutions will contribute to developing further research and informing global health responses to arboviral outbreaks in order to reduce their burden on communities worldwide.

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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