Special Issue

Surveillance and Genomics of (Re-)Emerging Viral Infections

Message from the Guest Editor

I am pleased to announce the Special Issue, "Surveillance and Genomics of (Re-)Emerging Viral Infections." This issue explores how genomics can improve the early detection, characterization, and monitoring of emerging viral threats. Timely surveillance and molecular insights are key to mitigating viral epidemics and pandemics. The focus is on integrating genomic tools into viral surveillance, including novel detection platforms, sequencing technologies, and bioinformatics approaches to track viral evolution and transmission. We invite research, reviews, and perspectives on virology, molecular epidemiology, bioinformatics, One Health, public health genomics, and environmental surveillance. Topics may include realtime genomic surveillance, host-pathogen interactions. zoonotic spillover detection, and genomic data sharing during outbreaks. This Special Issue aims to foster interdisciplinary research that informs public health strategies and encourages collaboration among researchers, clinicians, and policymakers. We seek contributions that reflect viral threats and innovative scientific responses to help anticipate and contain future outbreaks.

Guest Editor

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Deadline for manuscript submissions

31 January 2026



Tropical Medicine and Infectious Disease

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 4.7
Indexed in PubMed



mdpi.com/si/243821

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