

Special Issue

Emerging Infectious Diseases: A Perpetual Challenge

Message from the Guest Editor

Emerging infectious diseases (EIDs) continue to pose a significant and evolving threat to global health, driven by factors such as ecological disruption, climate change, increased international travel, and dense urbanization. The zoonotic origin of many pathogens highlights the importance of integrated One Health surveillance systems that bridge human, animal, and environmental health domains. Recent outbreaks of SARS-CoV-2, Ebola, Zika, and mpox exemplify the rapid pathogen adaptation and transmission dynamics that challenge existing public health infrastructure. Advances in genomic sequencing and bioinformatics enable real-time pathogen tracking and mutation surveillance, critical for outbreak containment and vaccine development. Despite progress in vaccine technology and antiviral therapeutics, disparities in healthcare capacity remain a significant obstacle to global response efforts. Strengthening global health systems and fostering international cooperation are imperative to effectively address this perpetual challenge.

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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