

# Special Issue

## Navigating Novel Viral Challenges: Understanding, Tracking, and Mitigating Emerging Threats

### Message from the Guest Editors

This Special Issue aims to explore the dynamic landscape of emerging viral threats, focusing on understanding, tracking, and mitigating these challenges. While encompassing a broad spectrum of viral pathogens, this Special Issue particularly emphasizes the necessity of proactive measures in response to the evolving nature of infectious diseases. Through comprehensive research articles, reviews, and perspectives, this collection will delve into the molecular, epidemiological, and ecological aspects of viral emergence. By elucidating the mechanisms underlying viral spillover, transmission dynamics, and host–pathogen interactions, this Special Issue aims to provide valuable insights into predicting and preventing future outbreaks. Additionally, it will examine the role of advanced surveillance systems, data analytics, and interdisciplinary collaborations in enhancing preparedness and response efforts. Ultimately, this Special Issue seeks to foster a deeper understanding of emerging viral threats and promote evidence-based strategies for safeguarding global health security.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2025)



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## About the Journal

### Message from the Editor-in-Chief

"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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### Editor-in-Chief

Dr. Nico Jehmlich

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JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).