

Special Issue

Highly Virulent Viruses: From Pathogenesis to Therapeutics

Message from the Guest Editors

This Special Issue aims to provide a comprehensive and authoritative overview of the mechanisms that underlie viral virulence and strategies being developed to combat the most dangerous viral pathogens. This collection focuses on the continuum from fundamental molecular and cellular processes driving viral pathogenesis to translational research informing therapeutic development. The Special Issue seeks to highlight advances in understanding host–virus interactions, immune evasion, viral evolution, and determinants of severe disease, while also emphasizing the development and evaluation of therapeutics, including antivirals and novel therapeutic platforms. Contributions integrating basic science with clinical and public health perspectives are particularly welcome. We warmly invite researchers, clinicians, and public health experts to submit original research articles, reviews, and perspectives on current challenges and emerging threats from highly virulent viruses. We also welcome readers to engage with this Special Issue, which we hope will serve as a valuable resource, stimulate interdisciplinary collaboration, and support preparedness and response efforts against viral threats.

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