

Special Issue

Host-Virus Interaction

Message from the Guest Editors

Viral infectious diseases continue to pose grave risks to public health. To better respond to emerging and re-emerging viruses, it is crucial to develop a comprehensive understanding of viral life cycles and virus–host interactions. Viruses rely on hijacking host cellular machinery for entry, replication, and propagation, while a host employs diverse defense strategies, including interferon signaling, autophagy, RNA interference, and the deployment of restriction factors to counteract infection. However, viruses have developed evasion strategies. This ongoing molecular arms race between viruses and host cells ultimately shapes the outcome of infections. These insights into virus–host interactions enhance our understanding of viral pathogenesis and are essential for the development of effective antiviral strategies, vaccines, and therapeutics.

We invite all types of manuscripts, focusing on virus–host interactions. Through this collection of articles, we hope that we can advance our knowledge on virus–host interactions so that we have a faster and more effective pandemic response in the future.

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Deadline for manuscript submissions

closed (20 May 2026)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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