

Special Issue

Viral Infections in Animals: Pathogenesis and Immunity

Message from the Guest Editor

Viral infections in animals pose significant challenges to global health, agriculture, and biodiversity. Many emerging infectious diseases originate from animal reservoirs, highlighting the need to understand the mechanisms behind viral pathogenesis and host immunity. Viruses employ sophisticated strategies to evade immune responses, manipulate host cellular pathways, and establish persistent infections, often leading to severe disease outcomes. Recent advancements in molecular virology, immunology, and high-throughput sequencing have expanded our understanding of virus–host interactions, revealing novel antiviral defense mechanisms and potential therapeutic targets. However, critical gaps remain in our knowledge of viral evolution, cross-species transmission, and immune evasion strategies. Addressing these challenges requires an interdisciplinary approach, incorporating virology, immunology, genomics, and epidemiology. This Special Issue will showcase cutting-edge research that advances our understanding of viral infections in animals, fostering the development of novel vaccines, antiviral strategies, and disease control measures.

Guest Editor

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Deadline for manuscript submissions

1 September 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



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