

Special Issue

Emerging and Re-Emerging Avian Influenza Viruses in Wildlife

Message from the Guest Editor

Avian influenza viruses (AIVs) remain a significant threat to wildlife, domestic animals, and human health. As members of the Orthomyxoviridae family, AIVs are categorized by their hemagglutinin (HA) and neuraminidase (NA) subtypes. Wild birds, particularly waterfowl, serve as the natural reservoirs of these viruses and play a vital role in their ecology—facilitating viral evolution, reassortment, and global transmission. In recent years, outbreaks of highly pathogenic avian influenza viruses (HPAIV), notably H5N1 clade 2.3.4.4, have increasingly affected not only avian populations but also a wide range of mammalian hosts. This Special Issue aims to highlight recent advances and emerging insights in the biology, evolution, and ecology of avian influenza viruses in wildlife. We encourage submissions from the fields of virology, immunology, evolutionary biology, ecology, and public health. Studies incorporating novel methodologies and interdisciplinary approaches are especially welcome. We look forward to your valuable contributions to this important collection.

Guest Editor

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About the Journal

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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