

## Special Issue

# From Sporadic Cases of Bird Flu to Global Pandemic of SARS-CoV-2: The Science Behind and Battle against Zoonotic Viruses

### Message from the Guest Editors

In the light of current COVID-19 pandemic, animal viruses with zoonotic potential have become major concern of the public health sector. Avian influenza viruses are one of the top risk zoonotic agents due to the size of avian species reservoir, bird seasonal migrations and the scale of interaction with humans (poultry farms, wet markets, nature reserves, parks, etc.). This zoonotic potential is best evidenced by the previous pandemics which had their origins in avian species. The prevalence of multiple influenza virus subtypes and their constant genetic reassortment as a sustained evolution of these viruses in a race to adapt to the new host account for the additional risk of new pathogen emergence. In this Special Issue we would like to invite our colleagues working on a broad range of aspects related to zoonotic viruses to submit manuscripts in the form of original research articles or reviews. We encourage articles within the fields of general virology, immunology, host-pathogen interactions, evolutionary biology and ecology, virus transmission, and disease control and prevention. We also welcome articles focused on case studies and the One Health approach.

### Guest Editors

Dr. Klaudia Chrzastek  
Independent Researcher, Atlanta, GA, USA

Dr. Dagmara Bialy  
The Pirbright Institute, Surrey, UK

### Deadline for manuscript submissions

closed (31 May 2024)



## Pathogens

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/103450](https://mdpi.com/si/103450)

*Pathogens*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[pathogens@mdpi.com](mailto:pathogens@mdpi.com)

[mdpi.com/journal/  
pathogens](https://mdpi.com/journal/pathogens)





# Pathogens

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/journal/  
pathogens](https://mdpi.com/journal/pathogens)



## 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

Prof. Dr. Hinh Ly

Department of Veterinary & Biomedical Sciences, University of Minnesota, Twin Cities, MN, USA

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, CaPlus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Infectious Diseases)