

## Special Issue

# Cell Death and Viral Pathogenesis

### Message from the Guest Editors

Programmed cell death is a powerful means of host defense, eliminating virus-infected cells while orchestrating the inflammatory cytokine environment and inflammation that drive disease. Patterns of cell death also dictate the quality of adaptive antiviral immunity by influencing antigen presentation and the cytokine environment. We now understand that pathogen recognition receptor (PRR), death receptor (DR), and cytokine receptor (CR) signaling trigger alternate pathways of apoptosis and programmed necrosis (necroptosis), highlighting an ancient stand-off between viral suppressors and cell death pathways. This Special Issue will explore all aspects of cell death pathways, including apoptosis, necroptosis, pyroptosis, autophagy, and ferroptosis during viral-infection-induced pathogenesis. We welcome updated reviews and research papers from our colleagues. We look forward to your contributions and to publishing your important work. Please let me know if you need any further modifications or additional information.

---

### Guest Editors

Dr. Hongyan Guo

Department of Microbiology & Immunology, Louisiana State University in Shreveport, Shreveport, LA, USA

Dr. Heather S. Koehler

Center for Reproductive Biology, Washington State University Pullman, Pullman, WA, USA

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Pathogens

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8  
Indexed in PubMed



[mdpi.com/si/205865](https://mdpi.com/si/205865)

*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. Moriya Tsuji

School of Engineering Medicine, Texas A&M University, 2121 West  
Holcombe Blvd., Suite 1007, Houston, TX 77030, 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)