

## Special Issue

# Viroinformatics and Viral Diseases

### Message from the Guest Editor

As a result of the availability of high-throughput RNA or small RNA sequencing data sets, viroinformatics is revolutionizing the way we study, understand, track, and manage viral diseases. This Special Issue includes cutting-edge applications of viroinformatics in viral surveillance, pathogenesis studies, virus evolution, characterization of genome-wide variation, drug/vaccine design, the emergence of new variants, and outbreak modeling. Big data, machine learning, artificial intelligence, structural bioinformatics, or phylogenetic approaches can be applied to address emerging/re-emerging viruses. Relevant topics include viral sequence analysis using DNA, RNA, or siRNA; host-pathogen interaction networks; diagnostic innovations; and AI-driven therapeutic discovery. By bridging computational science and experimental virology, it may accelerate solutions for global viral threats and foster interdisciplinary collaboration among virologists, evolutionary biologists, bioinformaticians, and public health researchers.

### Guest Editor

Dr. Hernan Garcia-Ruiz

Department of Plant Pathology, Nebraska Center for Virology, University of Nebraska-Lincoln, Lincoln, NE 68583, USA

### Deadline for manuscript submissions

31 July 2026



## Viruses

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 7.7  
Indexed in PubMed



[mdpi.com/si/250995](https://mdpi.com/si/250995)

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

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

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





# Viruses

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 7.7  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Viruses* (ISSN 1999-4915). *Viruses* is published in open access format—research articles, reviews and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Viruses* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Dr. Eric O. Freed

HIV Dynamics and Replication Program, Center for Cancer Research,  
National Cancer Institute, Frederick, MD 21702-1201, USA

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

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

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.2 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).