Special Issue

Omics of Virus-Host Interactions

Message from the Guest Editor

Viruses are obligate intracellular parasites. Thus, they must enter host cells in order to usurp cellular functions to use for their own propagation and to cause disease, during which viral components must interact with cellular components. Significant progress has been made during the past few decades thanks to advances in technologies, gene sequencing and bioinformatics, that now allow global analyses of thousands of genes and proteins. In this Special Issue of *Viruses*, we want to compile examples of the types of analyses and studies that contribute towards a better understanding of virus–host interactions.

- How viruses modify the cellular transcriptomic profile;
- Quantitative cellular protein alterations induced by virus infections;
- Global cellular protein modifications induced by virus infection, such as phosphorylation pattern alterations;
- Analyses of which viral proteins interact with which cellular proteins;
- Functional cellular protein alterations induced by virus infection;
- Alterations in cellular pathways induced by virus infection;
- Advances in technologies and in bioinformatics that contribute to better understanding virus–host interactions.

Guest Editor

Dr. Kevin M. Coombs

Department of Medical Microbiology, Rady Faculty of Health Sciences, University of Manitoba, Winnipeg, MB R3E 0J9, Canada

Deadline for manuscript submissions

closed (31 December 2022)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/108313

Viruses
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
viruses@mdpi.com

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

About the Journal

Message from the Editor-in-Chief

Viruses (ISSN 1999-4915) is an open access journal which provides an advanced forum for studies of viruses. It publishes reviews, regular research papers, communications, conference reports and short notes. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full experimental details must be provided so that the results can be reproduced. We also encourage the publication of timely reviews and commentaries on topics of interest to the virology community and feature highlights from the virology literature in the 'News and Views' section.

Electronic files or software regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material.

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, AGRIS, and other databases.

Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the first half of 2025).