Special Issue

Viral Infection: A Threat for Genomic Stability in Host Cells

Message from the Guest Editors

Viruses use different strategies to rewire the cellular environment of the host cell in order to stimulate their own replication and avoid clearance by innate immune response. Part of this process relies on the inhibition of cellular proteins that play dual roles in the antiviral response and the response to cellular DNA damage. Some viruses also directly hijack key proteins of these pathways to promote their own replication. In both cases, the inhibition of factors that safeguard genomic stability could be detrimental for the host cell. Indeed, recent genome-wide analyses revealed mutational signatures that are associated with defective DNA repair in cancers that are driven by oncogenic viruses. This Special Issue invites articles and reviews from experts in the field of oncogenic viruses and genomic stability to portray our current knowledge of the strategies used by viruses to manipulate pathways that maintain genomic stability in host cells. Articles and reviews addressing the impact of viral infections on the host genome are also welcome to highlight how viruses can facilitate the acquisition of mutations that promote carcinogenesis.

Guest Editors

Dr. Amélie Fradet-Turcotte

Department of Molecular Biology, Medical Biochemistry and Pathology, Faculty of Medicine, Canada Research Chair in Molecular Virology and Genomic Instability, Oncology Division, CRCHU de Québec - Université Laval

Dr. Cary Moody

Department of Microbiology and Immunology, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Deadline for manuscript submissions

closed (23 December 2021)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/64446

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

MDPI

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).