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

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

mdpi.com/journal/viruses

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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

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