Special Issue

Viral Strategies and Cellular Countermeasures that Regulate mRNA Access to the Translation Apparatus

Message from the Guest Editor

Viruses depend on the translation apparatus of host cells for the synthesis of viral proteins. Infection is consequently influenced by competition between viral mechanisms that act to co-opt the cellular translation apparatus and cellular mechanisms that restrict viral access to it. Viral strategies include (a) synthesis of proteins that substitute for specific components of the translation apparatus, (b) modification of components of the host translation apparatus such as translation factors, ribosomes, or host mRNAs, thereby restricting cellular translation and the execution of cellular antiviral responses, and (c) exploitation of specialized elements in viral mRNAs to enable them to access the translation apparatus in these conditions. This Special Issue will focus on recent advances in identifying viral effects on the cellular translation apparatus, in characterizing specialized viral translation mechanisms that function during infection, and in elucidating details of cellular mechanisms that restrict viral translation.

Guest Editor

Dr. Christopher Hellen

Department of Cell Biology, State University of New York Downstate Health Sciences University, Brooklyn, NY 11203, USA

Deadline for manuscript submissions

closed (31 May 2024)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/179655

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, 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 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).