Special Issue

Innate Immune Sensing of Viruses and Viral Evasion

Message from the Guest Editors

Innate immunity represents the first line of defense against viruses. The success of the immediate response relies on the recognition of PAMPs of viruses by specialized sensors called PRRs. The consequence of this surveillance network and the downstream pathway activation is the secretion of cytokines, type I interferons, and the expression of interferon-stimulated genes. Viruses have evolved multiple ways to dampen the host IFN response by interfering, disrupting, or evading specific host regulators. Recent discoveries have shown that the sensing pathways are highly regulated by post-translational modifications and co-regulating proteins. Moreover, emerging evidence indicates that there exists crosstalk between the sensing pathways. Furthermore, unexpected pathways seem to play important roles in detecting and responding to viral infections. This Special Issue will cover recent discoveries in the regulation of innate immune pathways during viral infections, novel mechanisms of exploitation, or the manipulation of regulators of the pathways by viruses and novel cellular network complexes that play a role in sensing viruses.

Guest Editors

Dr. Renate König
Paul-Ehrlich-Institut, Langen, Germany

Prof. Dr. Carsten Münk
Clinic for Gastroenterology, Hepatology and Infectiology, Medical Faculty, Heinrich-Heine-University Düsseldorf, 40225 Düsseldorf, Germany

Deadline for manuscript submissions

closed (15 June 2020)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/36237

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).