Special Issue

Rotaviruses and Rotavirus Vaccines

Message from the Guest Editors

Rotaviruses are a major cause of acute gastroenteritis in infants and young children and in the young of various mammalian and avian hosts. Although rotavirus-associated morbity and mortality have significantly decreased since the implementation of childhood vaccination programs, vaccine efficacy is still suboptimal in developing countries where vaccines are needed most. The molecular epidemiology of rotaviruses has benefitted from the application of advanced sequencing and bioinformatic techniques. Since 5 years ago, plasmid-only-based reverse genetics systems have been available and produced an enormous boost in both basic and translational research. The aim of this Special Issue of *Viruses* is to review and explore recent progress made in the analysis of viral replication, viral diversity, genotype–phenotype assignment, correlates of protection, biotechnology, and the development of alternative candidate vaccines.

Keywords
· rotaviruses
· molecular biology
· reverse genetics
· molecular epidemiology
· vaccine development

Guest Editors

Dr. Ulrich Desselberger
Department of Medicine, University of Cambridge, Addenbrooke's Hospital, Hills Road, Cambridge CB2 0QQ, UK

Prof. Dr. John T. Patton
Department of Biology, Indiana University, 212 S Hawthorne Drive, Simon Hall 011, Bloomington, IN 47405, USA

Deadline for manuscript submissions

closed (15 May 2024)

Viruses

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/185641

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).