

Special Issue

Physical Virology - Viruses at Multiple Levels of Complexity

Message from the Guest Editors

This Special Issue will present works by researchers with scientific expertise in virology, chemistry, material science, mathematics, physics, and engineering who share a common desire to (1) understand the biophysical mechanisms that enable and regulate viral lifecycles, (2) use this knowledge to develop and engineer novel nanotechnology platforms based on viral particles or other self-assembling structures, with applications including biomimetic materials and optoelectronics, and (3) broaden physical virology to leverage recent advances in cell biology and protein design. The COVID-19 pandemic has highlighted the need for these cross-disciplinary approaches to understand viral biology, predict their global spread and impact, and generate the fundamental knowledge that provides the foundation for the development of new treatments. This Special Issue is dedicated to the GRC Physical Virology in January 2023. All the attendees of the meeting will be entitled to a special 600 CHF discount on the article processing charge. We have a possibility to select a few papers to be published free of charge based on the quality and novelty of the papers.

Guest Editors

Dr. Roya Zandi

Dr. Michael F. Hagan

Dr. Charlotte Uetrecht

Deadline for manuscript submissions

closed (10 July 2023)



Viruses

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Impact Factor 3.5
CiteScore 7.7
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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

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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).