Special Issue

Computational Biology of Viruses: From Molecules to Epidemics

Message from the Guest Editor

Computational approaches have been used to study viruses at all levels of organization: from the molecular processes that occur within infected cells, through the dynamics of populations of virions and cells inside infected hosts, up to the level of epidemics and transmission between hosts. This Special Issue invites submissions that involve computational methods (mathematical or simulation modeling, or data analysis) at any (or, for multiscale models, several) of these levels to gain new insights into the fundamental processes, etiology, spread, and evolution of viral infections.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2020)

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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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JCR - Q2 (Virology) / CiteScore - Q1 (Virology/Infectious Diseases)

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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).