

Special Issue

Viruses in the Environment

Message from the Guest Editor

Environmental viruses are one key factor for microbial mortality, drive diversification and evolution of microbes through gene transfer and are key contributors to the mineralization of nutrients since they solubilize microorganisms by lysis. As a result, they are important drivers of global biogeochemical cycles. It is thought that most environmental viruses are bacteriophages, i.e. viruses that infect bacteria. However, it is quite possible that viruses that infect (micro)eukaryotes and archaea also play an important role in various ecosystems. Environmental changes may influence virus abundance and the composition of viral communities. These changes may in turn affect population dynamics and the diversity of host organisms that are of importance for many ecosystem functions. This special issue invites submissions that involve studies about viruses in the environment (e.g. marine, freshwater and soil ecosystems), including virus discovery, virus-host interactions and the consequences of virus infection on ecosystem services.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2022)



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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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