Special Issue

Diversity and Evolution of Plant and Fungal Viruses

Message from the Guest Editors

The study of plant and fungal viruses is a critical yet complex field that intersects with agriculture, plant pathology, ecology, and evolutionary biology. The Special Issue will delve into the genetic diversity of these viruses, their taxonomic classification, and the methods used to study their evolution. It will highlight the importance of understanding host–virus interactions, the role of viral diversity in ecological balance, and the implications for disease management in agriculture. The Issue will also explore the potential of using viral evolution as a tool for developing novel strategies in plant and fungal disease control. We welcome submissions that provide insights into the genomics and proteomics of plant and fungal viruses, the molecular mechanisms of viral pathogenesis, and the ecological and environmental factors influencing their evolution. Studies employing innovative approaches, such as metagenomics, bioinformatics, and systems biology, in combination with traditional virological methods to dissect the complex relationships between viruses and their hosts are particularly encouraged.

Guest Editors

Dr. Nina J Aboughanem

Institute for Genomics, Biocomputing and Biotechnology, Mississippi State University, 2 Research Park, Mailstop 9627, MS 39762, USA

Prof. Dr. Sead Sabanadzovic

Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, 100 Twelve Lane, Mail Stop 9775, MS 39762, USA

Deadline for manuscript submissions

15 July 2026

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/212434

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

MDPI