



Phage-Bacteria Interplay: Phage Biology and Phage Therapy

Guest Editors:

Dr. Hesham Abdelbary

Department of Surgery, Division
of Orthopaedics, The Ottawa
Hospital, Ottawa, ON, Canada

Dr. Mariam Taha

Ottawa Hospital Research
Institute, Ottawa, ON, Canada

Deadline for manuscript
submissions:

15 October 2024

Message from the Guest Editors

Dear Colleagues,

Bacteriophages (phages) are naturally occurring viruses that specifically infect and replicate within bacterial cells. Phages play a crucial role in shaping microbial communities and influencing bacterial evolution. Over the past few years, there has been a surge in exploring the therapeutic potential of phages against antibiotic-resistant bacteria.

This Special Issue entitled “Phage–Bacteria Interplay: Phage Biology and Phage Therapy” aims to present recent research related to phages with special focus on, but not limited to, the following areas: phage genomics, phage diversity, phage therapy, phage–host interactions, phage-mediated horizontal gene transfer, diverse mechanisms of phage infection, microbiome, replication and interaction with bacterial hosts. This Special Issue is devoted to publishing papers on studies of the biology, therapy and application of phages. Reviews, original research and communications will be welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular
Systems Biology, UFZ-Helmholtz
Centre for Environmental
Research, 04318 Leipzig,
Germany

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology*)

Contact Us

Microorganisms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/microorganisms
microorganisms@mdpi.com
X@Micro_MDPI