

Special Issue

Bacteriophages Biology and Bacteriophage-Derived Technologies

Message from the Guest Editor

The landscape of bacteriophage research is undergoing a remarkable renaissance, propelled by ecological, evolutionary, and molecular perspectives. What was once a nexus of scientific inquiry at the intersection of these disciplines has now emerged as a vibrant arena, fueled by cutting-edge advancements in molecular biology, genetic systems, and synthetic biology. At the forefront of this resurgence lies the transformative potential of bacteriophage-derived technology in combating antimicrobial resistance, biofilms, and a myriad of other applications. With bacterial viruses and their lytic enzymes heralded as promising alternatives to traditional antibiotics, the spotlight on phage-based antimicrobials has intensified. We are thrilled to announce the launch of this Special Issue. We welcome manuscripts that delve into the complexities of phage biology and explore novel bacteriophage-derived applications rooted in phage molecular mechanisms.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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