

Special Issue

New Insight into Bacteriophage and Their Potential Applications

Message from the Guest Editor

The field of bacteriophage research is undergoing a rapid transformation, driven by an ever-deepening understanding of phage biology and its translational potential. As the smallest yet most abundant biological entities, bacteriophages play a pivotal role in microbial ecosystems and serve as powerful tools for elucidating bacterial processes. Advances in genomics, structural biology, and synthetic biology have unveiled new dimensions of phage–host interactions, fostering innovative applications that span medicine, agriculture, and biotechnology. This Special Issue welcomes contributions that explore groundbreaking discoveries in phage biology, uncover novel mechanisms of action, and highlight emerging applications of bacteriophages. By showcasing interdisciplinary research, this Special Issue aims to bridge the gap between fundamental science and practical innovations, paving the way for transformative solutions to contemporary challenges such as antimicrobial resistance, environmental sustainability, and precision medicine.

Guest Editor

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Message from the Editor-in-Chief

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