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Bacteriophages: Infection, Genetics and Therapy

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Deadline for manuscript submissions:

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Message from the Guest Editors

Bacteriophages (or “phages”) are prokaryotic viruses known to infect and kill bacteria. The concept of using bacteriophages as therapeutic agents to cure bacterial infections, called phage therapy. Phage therapy is believed to be one of the alternatives to combat the antibiotic resistance crisis, but the impact of introducing therapeutic bacteriophages into the human system is less known. Even though bacteria are developing resistance to both bacteriophages and antibiotics, the combinational use of phages and antibiotics can overcome resistance to kill the bacterium. The possibility of reverting the antibiotic-resistant bacterial strain to become antibiotic-susceptible using a phage or phage cocktail is within the scope of investigation. In the broader view, more studies on bacteriophage biology at the molecular level will improve our understanding and help move phage research from laboratories to human therapeutics.

This Special Issue will present studies on bacteriophages—especially on phage characterization, phage genomics, phage–bacteria interaction, phage–antibiotic combination, animal-infection models, and phage-encoded antimicrobial proteins.



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Special Issue



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Message from the Editor-in-Chief

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