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Special Issue Reprint

Bacteriophage Therapy: Recent Developments and Applications of a Renaissance Weapon

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The spreading antibiotic resistance of bacteria is one of the most important challenges of modern medicine, and a search for methods that could replace conventional treatments of bacterial infections is urgently needed. Bacteriophage therapy is considered one of the most important alternatives to commonly applied antibacterial strategies.

This Special Issue, titled "Bacteriophage Therapy: Recent Developments and Applications of a Renaissance Weapon", collected eleven articles focused on different aspects of phage therapy. It includes five original articles, two case studies, and four reviews presenting research on the application of phages against pathogens posing a serious threat to human health, such as *Salmonella enterica*, *Pseudomonas aeruginosa*, *Vibrio cholerae*, and *Staphylococcus aureus*. The published articles also relate to the practical aspects of phage application, such as the development of modern phage carriers or the employment of mathematical tools for predicting bacteriophage features and their antibacterial potential. Furthermore, an important research topic discussed in this Special Issue is the application of phages in food safety, where phages could potentially replace routinely used antibacterials.



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