Special Issue

Bacteriophages-Based Technologies for a One Health Society: Applications in Clinical, Veterinary, and Industrial Settings

Message from the Guest Editors

An alarming escalating rise in global multi-drug resistant bacteria presents a huge environmental, social, and economic burden. Suitable alternatives to traditional antibiotic treatments are now being sought in a range of settings. Phage therapy has been a much under-explored alternative to antibiotic use, but a renaissance in phage-based therapies is now highly anticipated. This Special Issue will offer deep insights into the latest developments of research dedicated to bacteriophage therapy, consistent with a 'One Health' approach, providing potential alternative solutions to treating bacterial pathogens with phages. This Special Issue topic will appeal to researchers interested in the potential for phage therapy to share their recent results in a variety of environments, including clinical settings, veterinary medicine, and industrial applications, such as food and beverage industries. Research relating to phage therapy in farming practices, namely agriculture and aquaculture, is also very much welcomed. These findings will provide a foundation to enlarge the current application of phage therapies in the treatment of recalcitrant pathogenic bacteria.

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"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.

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