

Special Issue

Phage Applications from Diagnostics to Treatment of Bacterial Infections in a One Health World

Message from the Guest Editors

In recent years, the rise of antibiotic resistance has emerged as a critical global health threat, necessitating innovative approaches to combat infectious diseases. Phage therapy presents a promising avenue in this battle. This Special Issue deals with the multifaceted realm of phage therapy within the framework of One Health—a holistic approach that recognizes the interconnectedness of human, animal, and environmental health. Through a comprehensive exploration of phage therapy's role in a One Health world, this Special Issue aims to inspire innovative strategies for combating infectious diseases and safeguarding public health in an era of escalating antibiotic resistance. Exploring the intersection of microbiology, medicine, veterinary science, agriculture, and biotechnology, this Special Issue will collect articles showing the potential of phage therapy to revolutionize bacterial infection/colonization management across diverse ecosystems. From elucidating phage–host interactions to phage molecular characterizations and addressing regulatory challenges, the contributions are expected to investigate the key aspects of phage therapy research and application.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

Editor-in-Chief

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