



Antimicrobial Therapies and Biological Responses

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Message from the Guest Editors

Dear Colleagues,

Antimicrobial treatments for bacterial infections are performed as a causative or adjunctive therapy for various diseases. Broadly, it includes antibacterial drugs, antimicrobial photodynamic therapy, and bactericidal peptide. With the decrease of targeted bacteria by antimicrobial treatment, inflammation is suppressed and biological responses such as cytokine secretion or bacterial flora are improved. However, the details related to the mechanism of action of antimicrobial therapy, its effective use, and biological responses have not been fully elucidated. This Special Issue invites articles on antimicrobial therapy and their spread and evolution, including but not limited to the following topics:

- Antimicrobial therapy and immunological response (e.g., immune cells and soluble factors including cytokines and complement)
- Antimicrobial therapy and microbiological response (e.g., composition of the microbial community)
- The evolution and spread of known method of antimicrobial therapy and the emergence of new treatments (e.g., antimicrobial photodynamic therapy and bactericidal peptide)





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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.

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