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Antimicrobial Chemotherapy: New Therapeutic Approaches against the Drug-Resistant and Difficult to Treat Bacterial Infections

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Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Infections caused by pathogenic bacteria can be treated successfully with the existing antibacterial compounds. Despite the huge success of antibiotics in antimicrobial therapy, some bacteria that are susceptible to antibiotics survive either due to inappropriate use of antibiotics or the presence of biofilms that increases their survival in the presence of antibiotics. To treat the infections caused by persistent and drug-resistant bacteria, we urgently need to develop novel antibiotics targeting alternate pathways of pathogenic bacteria.

The current Special Issue will focus on the following topics: 1) novel antibacterial compounds that target alternate pathways of the pathogenic bacteria; combinatorial treatment using novel antibiotics with first-line antibiotics; treatment using phage therapy, nanoparticles, adjuvants, targeting quorum-sensing, and modulation of host immune response; and 2) basic and clinical concepts for the treatment of infections.

Keywords: antimicrobial chemotherapy; resistance mechanism; bacterial persistence; alternate targets; biofilms; novel antibiotics; multidrug resistance; clinical concepts

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Editor-in-Chief

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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 disciples 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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