antibiotics

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New Methodologies of Antibiotic Therapy: Drug Design and Diagnostic Tools

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Deadline for manuscript submissions:
30 November 2024

Message from the Guest Editors

Dear Colleagues,

Defeating infections is often described as the emerging challenge of the century. The search for novel, more efficient and safer antimicrobial agents is a constant social demand. On the one hand, with unprecedented infectious outbreaks, the alarming state of antibacterial resistance and growing environmental concerns regarding antibiotics, developing new scaffolds/compounds is of utmost importance. Moreover, due to the large number of affected populations, securing low-cost, green and convenient chemical production is crucial. Finally, as timely and precise diagnostics increase the success rate of treatments and control of infection spread, efficient tools and probes are also in high demand.

In this context, the present issue is willing to accept research and review papers that address the following:

- Novel antimicrobial agents including small molecules, natural products, peptides, polymers and nanomaterials.
- New synthetic strategies to conveniently access new/privileged scaffolds with antimicrobial activity and related libraries.
- Novel diagnostic strategies based on (photo-, bio-, etc.) chemical probes.

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Special Issue

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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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