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Multidrug Resistance as Trigger for the Development of Novel Antimicrobials

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Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

The incidence of human pathogens resistant to multiple antimicrobials has been increasing over the last decades. Infections caused by pathogens resistant to multiple antimicrobials are quite difficult to eradicate and are associated with a worst outcome that those caused by the respective susceptible strains being directly associated with an increased risk of morbidity, mortality and cost. While the emergence of multidrug resistance has been associated with misuse and abuse of antimicrobials, the number of available effective drugs is decreasing and novel compounds arriving at the market are scarce.

This Special issue aims to gather papers describing novel antimicrobials, originating form chemical synthesis, repurpose of existent drugs or from natural sources. Papers on the description of novel structures, discovery of novel targets and mechanisms of action, as well as on the use of omics approaches in the field of novel antimicrobials discovery and characterization are also welcome.

Keywords: novel antimicrobials, multidrug resistance, target identification, ESKAPE bacteria, drug design, mechanisms of action

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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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