



Advances in the Discovery of Novel Antimicrobial Agents in Nature and Their Applications

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Message from the Guest Editors

The inappropriate use of antibiotics and the inadequate control of human infections have led to emergence of resistant strains that are a major threat to public health and global economy. Therefore, seeking for a solution to this problem and replacements for antibiotics in nature has become imperative. Following this worldwide trend, this Special Issue is dedicated to the discovery of novel natural antimicrobial agents and the investigation of their mechanisms of action (targeting new proteins, inhibitors of virulence factors, nanoparticles, antisense oligonucleotides, etc.). This Special Issue also welcomes the submission of manuscripts dealing with common applications of natural antimicrobial agents, such as in the food and pharmaceutical industries and in smart packaging. We also welcome investigations on new and alternative applications, for instance the use of essential oils in the protection of cultural heritage.





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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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