

Special Issue

Phytochemicals with Antimicrobial Activity: From Discovery to Application

Message from the Guest Editors

Today, infections associated with multidrug-resistant (MDR) bacteria still represent a great challenge yet to be treated due to limited therapeutic options, thus requiring alternative antimicrobial strategies. In this regard today, a wide range of new drugs are being derived from plant metabolites. Any single plant indeed represents a library of hundreds to thousands of architecturally and stereochemically complex chemicals, termed phytochemicals. Therefore, in recent years, to counteract antimicrobial resistance, phytochemicals with antimicrobial activity are widely recommended by the experts. Their use, in combination with the conventional commercial antibiotics, exhibits superior antimicrobial activities. Moreover, the membrane proteins that were accountable for antibiotic efflux can be effectively treated by antimicrobial phytochemicals that, therefore, could represent new weapons in the battle against intractable infectious diseases. This Special Issue seeks submissions that further our understanding of new, more active phytochemicals with antimicrobial activity focusing on the discovery and development of new molecules and their potential applications.

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About the Journal

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.

Editor-in-Chief

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