Special Issue

Antimicrobial Extracts and Compounds Derived from Plants

Message from the Guest Editor

Plants, with their extensive repertoire of bioactive compounds, have emerged as a valuable reservoir of novel antimicrobial agents. These phytochemicals demonstrate efficacy against a wide array of microbial pathogens, encompassing even antibiotic-resistant strains. Unlike conventional antibiotics, plant-derived antimicrobial extracts and compounds often exhibit complex, multifactorial mechanisms of action, reducing the likelihood of resistance development. This Special Issue seeks to showcase pioneering research and progress in this domain. We encourage submissions on the isolation, structural characterization, bioactivity, and mechanisms underlying the antimicrobial properties of plant-derived substances. Manuscripts exploring synergistic interactions with conventional antimicrobials, innovative formulation strategies, and assessments of toxicity and safety are particularly welcome. This Special Issue aims to advance the understanding of the potential of natural compounds to serve as effective therapeutic agents, contributing to the development of sustainable interventions for combating infections and mitigating antimicrobial resistance (AMR).

Guest Editor

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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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