Special Issue

Antimicrobial Activity of Different Plant Extracts, Plant-Derived Compounds and Synthetic Derivatives of Natural Compounds on Pathogenic Microorganisms

Message from the Guest Editors

The problem with MDR (multidrug-resistant) strains is associated with significant mortality caused by these pathogenic microorganisms, especially in hospital environments. The search for new compounds of natural origin is crucial in solving this problem. Extraction is a simple method to isolate various compounds from raw plant material. Furthermore, different plant extracts have high biological activity, comparable to that of known drugs. However, in search of novel plant-derived compounds characterized with stronger biological activity than plant extracts, chemical modifications of natural compounds are helpful. Additionally, articles which present alternative methods of obtaining natural compounds with antimicrobial activity are also welcome. It will be interesting to compare the antimicrobial activity of natural compounds and their synthetic derivatives but also different plant extracts with pure compounds, which are dominant in plants. Plant extracts and compounds obtained by chemical modifications or biotransformations may be the future of effective treatment of infectious diseases.

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Deadline for manuscript submissions

closed (31 March 2023)



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Impact Factor 4.6 CiteScore 8.7 Indexed in PubMed



mdpi.com/si/110870

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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.

Editor-in-Chief

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