Special Issue

Bioactive Compounds from Natural Sources: Characterization and Biological Evaluation

Message from the Guest Editor

Overuse of antibiotics has led to the rapidly spreading resistance of microorganisms to known drugs. It is estimated that currently around 1 million people die each year from multi-drug-resistant microorganisms. Hence, there is an urgent need to search for new drugs with a broad antimicrobial activity, as only the implementation of such agents will be profitable for pharmaceutical companies. Most antimicrobial compounds are derived from plants and microorganisms. These natural sources are rich in as yet unexplored secondary metabolites that have the potential to be new antimicrobial agents. Currently, many interdisciplinary teams of chemists and microbiologists conduct intensive research in this area, so we believe that it is worth devoting a special issue of Molecules to it. Therefore, we welcome studies that present research outcomes on all aspects of searching of new antimicrobial agents, including but not limited to the following topics:
Natural compounds with antimicrobial activity;Methods of production, isolation and purification;Scope of activity;Mechanisms of action;Chemical characteristics.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2023)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/106961

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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