

Special Issue

Extraction, Characterization and Biological Activity of Natural Products

Message from the Guest Editors

Natural products are widely used in many branches of industry, especially in the pharmaceutical, cosmetic, and food industries. And research regarding the isolation mechanisms of bioactive molecules has intensified.

More research is being conducted with the aim to determine their bioactivity in vitro and in vivo, but also to elucidate their action mechanism. It is important to determine the potential toxicity of natural bioactive compounds, as well as toxic doses, but also their metabolism in a living organism. In addition to biological characterization, their chemical characterization is of great importance, and research is intensifying in the field of development of analytical methods for their reliable detection, identification, and quantification. Due to the exceptional importance of natural bioactive compounds, there is a growing interest in finding alternative sources of potential biomolecules, so that waste from the agroforestry, agriculture, and food sectors is recognized as their potential source, positively related to ecology and environmental protection. Furthermore, new efficient and environment-friendly extraction solvents or technologies should be developed.

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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