

Special Issue

Extraction, Analysis of Natural Products and Their Applications in Medicinal Chemistry

Message from the Guest Editors

Modern drug discovery is a complex, interdisciplinary process that combines cutting-edge computational and synthetic methods with rigorous in vitro and in vivo evaluations. This Special Issue will delve into the dynamic interface between natural product chemistry and pharmaceutical sciences, emphasizing both the traditional use of medicinal plants and the innovative techniques that are transforming drug development. Topics of interest include, but are not limited to, the following:

- Optimization of eco-efficient extraction processes for natural products
- Isolation, identification, and quantitative assessment of bioactive compounds;
- Applications of advanced analytical techniques for structural elucidation and quantification of natural products
- In vitro and in vivo studies that elucidate the pharmacological mechanisms and therapeutic potential of natural products;
- The integration of computational tools, including machine learning and artificial intelligence, into virtual screening, structure prediction, and optimization for drug candidates;
- Multidisciplinary approaches that bridge traditional natural product uses and modern pharmaceutical innovation.

Guest Editors

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Editor-in-Chief

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