# **Special Issue**

# Metabolomics of Medicinal Plants

## Message from the Guest Editors

Metabolomics studies small molecules (less than 1,500 Da) in biological systems, reflecting functional phenotypes through gene/protein activity and environmental interactions. The study of the metabolomics of medicinal plants offers a comprehensive approach to discovering their therapeutic potential, contributing to drug discovery, quality control, and the regulation of their consumption. Technological advances—NMR, MS, HPLC/GC, infrared spectroscopy—drive this field, while bioinformatics transforms raw data into biomedical/biotechnological insights.

This Special Issue "Metabolomics of Medicinal Plants" invites original research using metabolomics to decode biochemical networks governing bioactive compound production. Such knowledge enhances therapeutic application and validates traditional medicine. Submissions are welcome on:

- The discovery of novel metabolites;
- The validation of traditional medicine;
- Quality control and chemotyping in herbal products;
- Integrative omics in medicinal plants;
- Decoding metabolic pathways;
- Dereplication strategies in natural products;
- Network pharmacology;
- Al and machine learning:
- Bioinformatic-assisted procedures:
- Cutting-edge metabolomic tools.

#### **Guest Editors**

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## Deadline for manuscript submissions

20 December 2025



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# Message from the Editor-in-Chief

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### **Editor-in-Chief**

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