# **Special Issue**

# Phytochemical Characterization and Bioactivity of Medicinal Plants: From Analytical Techniques to Therapeutic Potential

## Message from the Guest Editors

This Special Issue seeks to compile contributions addressing both the phytochemical characterization and biological evaluation of extracts, decoctions, infusions, and metabolites derived from wild and cultivar plants and fruits, as well as derived products such as propolis. Topics include chemical characterization by instrumental methods such as UHPLC-MS and GCMS: the isolation and structural elucidation of known and new molecules by various spectroscopic techniques; their antioxidant and antimicrobial effects: their role in metabolic and inflammatory disorders; and their potential applications in cancer prevention and treatment. Research on the inhibition of enzymes relevant to human health, such as acetylcholinesterase, butyrylcholinesterase, amylase, and glucosidase, is also welcome. Furthermore, we especially encourage studies exploring the metabolic and behavioral effects of medicinal plants, including their influence on anxietyrelated behaviors, cognition, and neuroprotection in experimental models. Submitted manuscripts must not have been previously published or be under review for publication elsewhere.

#### **Guest Editors**

Dr. Alejandro Tapia

Dr. Mario Juan Simirgiotis Aguero

Prof. Dr. Beatriz Lima

Dr. Mariana Rey

### Deadline for manuscript submissions

30 June 2026



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Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/260491

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## Message from the Editor-in-Chief

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.

### Editor-in-Chief

Prof. Dr. Dilantha Fernando

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