

Special Issue

Nutraceuticals and Biological Activity of Medicinal and Food Plants on Improving Human Well Being

Message from the Guest Editors

Medicinal plants are a rich source of nutraceutical and pharmacological compounds including polyphenols, carotenoids, alkaloids, and sulfur-containing compounds. The biological activities of medicinal plants are gaining interest in the ethno-therapeutic industry due to their reported effectiveness in comparison to chemically synthesized medicines. For example, the use of medicinal plants to develop natural antiseptics for oral health has been associated with reduced periodontal diseases. The chemical composition of *Dichrostachys cinere* L., which is often used as a chewing stick to treat toothache, was found to be dominated by glycosides, saponins, tannins, amino acids, and terpenoids from the leaves and saponins, tannins, steroids, and cyanoglycosides from the stems. These nutraceutical compounds were then associated with inhibiting spore germination and demonstrated an antimicrobial activity towards common oral pathogens. Therefore, this Special Issue aims to document the efficiency of medicinal plant extracts on the treatment and prevention of various human ailments and diseases.

Guest Editors

Dr. Ashwell Ndhkala

Dr. Semakaleng Mpai

Dr. Vuyisile S. Thibane

Deadline for manuscript submissions

closed (31 March 2024)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/112473

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

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
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)