



*plants*



an Open Access Journal by MDPI

## Insights into Functional and Medicinal Value of Natural Products from Plants

Guest Editor:

**Prof. Dr. Shaden Khalifa**

Department of Molecular  
Biosciences, Capio Saint Görans'  
Hospital, SE-106 91 Stockholm,  
Sweden

Deadline for manuscript  
submissions:

**closed (31 December 2024)**

### Message from the Guest Editor

Dear Colleagues,

Plant-derived natural compounds have long been recognized for their functional and therapeutic benefits. Plants are essential components in our diet, supplying vitamins, minerals, and other bioactive compounds required for good health and well-being. These products encompass a diverse range of compounds, including alkaloids, flavonoids, terpenoids, phenolic compounds, and many others, which contribute to the rich chemical diversity found in the plant kingdom. Currently, many pharmacological medications are derived from plants where natural products serve as important starting materials for drug discovery and development. The anti-inflammatory, antimicrobial, antioxidant, anticancer, and immunomodulatory effects are among the most studied biological impacts of natural products, but the potential of natural products in the pharmaceutical and medical fields is unlimited. The current Special Issue aims to provide updated knowledge of the chemical components, the biological functions, the metabolomics profile, and all the other aspects covering the potential of natural products in health care systems.



[mdpi.com/si/185705](https://mdpi.com/si/185705)

**Special** Issue



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Dilantha Fernando**  
Department of Plant Science,  
University of Manitoba, Winnipeg,  
MB R3T 2N2, Canada

## 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.

## 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)

## Contact Us

---

Plants Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)