

# Special Issue

## Chemical Composition, Biological Activity and Function of Plant-Based Foods

### Message from the Guest Editor

Plants are a primary source of biologically active compounds that are utilized in the development of pharmaceuticals, functional foods, and dietary supplements. Biologically active compounds such as phenolic acids, flavonoids, carotenoids, phytosterols, and others are beneficial for human health. The application of plant-derived biologically active compounds is associated with antioxidant, anti-inflammatory, etc. The search for new biologically active molecules, their extraction from plant materials, standardization, and studies on their biological uptake are important scientific stages for their safe practical application. This Special Issue is intended for academic researchers and other specialists to share their latest works and contributions in advancing knowledge across various fields. The prominent themes suggested for publication in this Special Issue encompass, but are not limited to, the following: technologies for the extraction of biologically active compounds from plants, chemical composition analysis, extract standardization, in vitro studies of biological activity, and assessment of the quality of functional foods and dietary supplements.

---

### Guest Editor

Prof. Dr. Kristina Ramanauskienė

Department of Clinical Pharmacy, Faculty of Pharmacy, Lithuanian University of Health Sciences, LT-50162 Kaunas, Lithuania

---

### Deadline for manuscript submissions

closed (30 September 2024)



# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/181961](https://mdpi.com/si/181961)

*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](http://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)

