

## Special Issue

# Phytochemicals for Plant and Human Health

### Message from the Guest Editor

Over millions of years of evolutions, plants have developed mechanisms to respond to biotic and abiotic stressors. Phytochemicals are secondary metabolites in plants that are involved in the response to these exogenous stressors. As a protection mechanism, plants have evolved various classes of phytochemicals to mitigate pest and diseases. Additionally, phytochemical levels have been reported to fluctuate in response to various environmental conditions and cultural practices. Interestingly, some of the phytochemical that protect plants from pest and diseases have been shown to have medicinal properties against human diseases. The goal of this special issue is to collect current and novel scientific finding in the areas of plant chemistry. The scope of this special issue publication includes, but is not limited to, works dealing with plants as functional foods, plant-insect interactions, isolation and purification of bioactive compounds, the study of underutilized plants as a source of bioactive compounds, and novel plant derived biopesticides. Original research articles, reviews and short communications are welcome.

### Guest Editor

Dr. Jose Luis Perez

United States Department of Agriculture- Agricultural Research Service; Insect Control and Cotton Disease Research Unit, College Station, TX 77845, USA

### Deadline for manuscript submissions

closed (30 April 2022)



## Plants

an Open Access Journal  
by MDPI

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/77037](https://mdpi.com/si/77037)

*Plants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[plants@mdpi.com](mailto: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)