

## Special Issue

# Integrated Metabolomics and Plant Chemical Diversity

### Message from the Guest Editors

Modern use of metabolomics in plant science addresses several gaps in our knowledge, such as: 1) identification of new metabolites to science; 2) plant–animal, plant–plant, and plant–microbe interactions; 3) plant chemical ecology; 4) taxonomy; 5) chemical and systematic geography; and 6) drug discovery. Integrated metabolomics goes a step further, seeking to combine metabolomic data with other disciplines, such as molecular systematics, gene expression (transcriptomics), in vitro bioassays, and in silico modeling, morphology, or environment, just to name a few. Lastly, publicly available data can be “mined” and either used on their own or incorporated into one’s own dataset in a larger analysis. Thus, the creation of quality metabolomic studies per se serves that end purpose.

The current Special Issue welcomes any kind of metabolomic or integrated studies that elucidate plant chemical diversity and its transdisciplinary applications in plant sciences.

---

### Guest Editors

Dr. Nicholas J. Sadgrove

Jodrell Science Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3DS, UK

Dr. Guillermo Federico Padilla-Gonzalez

Jodrell Science Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3DS, UK

---

### Deadline for manuscript submissions

closed (31 March 2022)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/71004](https://mdpi.com/si/71004)

*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)