

## Special Issue

# Plant Tissue Culture and Genetic Engineering

### Message from the Guest Editor

Due to climate change and market competition, plant biologists have recently become more interested in the creation of new cultivars with novel agronomical and horticultural traits, which can resist the global climate change and increase market demand, and development of plant propagation methods for conservation of endangered species. Plant tissue culture and genetic engineering techniques have been intensively applied in the areas of plant regeneration and conservation of endangered species, crop genetic improvements using in vitro breeding techniques, and metabolic genetic engineering. This Special Issue covers various aspects of plant tissue culture and genetic engineering techniques, such as regeneration via organogenesis and somatic embryogenesis, germplasm conservation, disease elimination via meristem culture and cryopreservation, production of secondary metabolites, in vitro ploidy induction, mutagenesis, genetic transformation, genome editing, etc.

---

### Guest Editor

Dr. Aung Htay Naing

Department of Horticulture, Kyungpook National University, Daegu, Korea

---

### Deadline for manuscript submissions

closed (30 April 2021)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/54079](https://mdpi.com/si/54079)

*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)