

Special Issue

Micropropagation and Germplasm Conservation of Horticultural Plants

Message from the Guest Editors

This Special Issue of *Plants*, entitled '*Micropropagation and Germplasm Conservation of Horticultural Plants*', brings together cutting-edge research and reviews that address key challenges and innovations in the in vitro propagation and long-term conservation of horticultural crops worldwide. The global demand for high-quality planting material is rising and threats to plant biodiversity are intensifying. This Issue provides a timely and comprehensive platform for the presentation of scientific advancements and their innovations, which support both commercial horticulture as well as effective conservation efforts. The featured articles explore diverse aspects of micropropagation, including novel protocols for efficient shoot induction, somatic embryogenesis, and the development of temporary immersion systems for scalable plant production. Emphasis is placed on the production of pathogen-free, genetically stable plants through refined techniques such as meristem culture, micrografting, and synthetic seed technology.

Guest Editors

Dr. Amir Khoddamzadeh

Department of Earth and Environment, Florida International University,
11200 SW 8th St, Miami, FL 33199, USA

Dr. Madhugiri Nageswara-Rao

USDA-ARS-Subtropical Horticulture Research Station (SHRS), 13601
Old Cutler Road, Miami, FL 33158, USA

Deadline for manuscript submissions

31 March 2026



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/246424

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](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)