

Special Issue

Trends and Prospects of Genetic and Molecular Research in Plants—2nd Edition

Message from the Guest Editors

Genetic and molecular studies on plants have made it possible to secure useful genetic resources that can adapt to environmental stresses such as biotic stress and abiotic stress for a stable supply of human food resources and to identify their functions. To this end, many researchers have reported on environmental stress resistance mechanisms as well as major regulatory genes related to plant organ differentiation, growth and development, and metabolism. Thus, this Special Issue, entitled “Trends and Prospects of Genetic and Molecular Research in Plants, 2nd Edition,” aims to gather various biotechnology studies to overcome the limitations of crop productivity from the genome to the population level and maximize the factors and quantitative traits that correlate with the expression of key functional genes in crops. We welcome the submission of review and research papers or short communications on topics related to results and applications, focusing on genetic and breeding studies at the molecular level of plants.

Guest Editors

Prof. Dr. Yong-Gu Cho

Prof. Dr. Yu-jin Jung

Dr. Me-Sun Kim

Deadline for manuscript submissions

closed (31 August 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/plants](https://www.mdpi.com/journal/plants)

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://www.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)

