

Special Issue

Genetic Diversity, Germplasm Resources, and Biotechnological Applications for Sustained Crop Improvement

Message from the Guest Editors

Along with the increased frequency of extreme weather events around the world, developing strategies to continue to improve crop yield and quality has become a major challenge. Accelerating crop improvement through the development of new germplasm resources with increased adaptation to adverse environmental factors is still an effective way to increase grain production. Germplasm resources are a crucial resource to conserve genetic diversity, and can also provide a source of novel traits essential for sustained crop improvement. This Special Issue focuses mainly on exploring the genetic diversity and germplasm resources associated with altered tolerance to environmental stresses. There is particular interest in research on the molecular basis of novel alleles and key traits, and their potential biotechnological applications in molecular breeding. The aim of this Special Issue is to provide a better understanding of genetic diversity, germplasm resources, and new biotechnologies for the development of environmental-stress-tolerant plants for sustained crop improvement.

Guest Editors

Dr. Wenqiang Li

College of Life Sciences, Northwest A&F University, Yangling, China

Prof. Dr. Haifeng Li

College of Life Sciences, Xinyang Normal University, Xinyang 464000, China

Deadline for manuscript submissions

closed (30 April 2024)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/155860

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)