



*plants*



an Open Access Journal by MDPI

## Crop Genetics and Breeding

Guest Editors:

**Prof. Dr. Hai Du**

College of Agronomy and  
Biotechnology, Southwest  
University, Chongqing 400716,  
China

**Dr. Zhe Liang**

Biotechnology Research Institute,  
Chinese Academy of Agricultural  
Sciences, Beijing 100081, China

Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editors

As an enduring and thriving academic discipline worldwide, crop genetics and breeding play crucial roles in agricultural development, contributing to the improvement of crop varieties with desirable traits such as higher yield and/or quality, resistance to biotic and abiotic stresses, tolerance to environmental stress, adaptability to climate change, enhanced nutritional content, etc. Great advances have been made in both theoretical and applied research fields of crop genetics and breeding and its linkages with related disciplines, attributing to advancements in genomics, biotechnology, molecular biology, population genetics, multi-omics, bioinformatics, etc., which have opened new interdisciplinary areas of plant genetics and breeding. We welcome submissions of different types of manuscripts, including original research papers, reviews and methods, encompassing, but not limited to:

Genetic Diversity;

Gene Discovery;

Marker-Assisted Selection (MAS);

Genome Editing;

Quantitative Genetics;

Hybridization and Crossbreeding;

Genetic Modification;

Phenotypic Selection;

Data-Driven Breeding



[mdpi.com/si/191265](https://mdpi.com/si/191265)

# Special Issue



# plants



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Dilantha Fernando**

Department of Plant Science,  
University of Manitoba, Winnipeg,  
MB R3T 2N2, Canada

## 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.

## 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 (*Plant Science*)

## Contact Us

---

*Plants* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/plants](http://mdpi.com/journal/plants)  
[plants@mdpi.com](mailto:plants@mdpi.com)  
[X@Plants\\_MDPI](https://twitter.com/Plants_MDPI)