

Special Issue

Genetic and Genomic Resources for Wheat Improvement

Message from the Guest Editors

Wheat is the largest cultivated crop in the world, with more than 80% of worldwide production used for human consumption, comprising 19% of everyday calories and 21% of protein requirements for humans. In order to meet the increasing requirements of a growing population and tackle the challenges of global climate change, there is a greater need for further genetic improvement to secure the future food supply. The most efficient way is to exploit beneficial genes or alleles from gene pools of wheat and its relatives for wheat breeding to increase grain yield and plant tolerance to the fluctuating climate. Therefore, genetic and genomic resources will be important for improving the crop in the 21st century. This Special Issue focuses on wheat improvement in plant architecture, grain yield, development stage, and stress resistance. Studies on the latest resources in wheat genetics and genomics (or other omics) for trait mapping, gene cloning and allele mining of these agronomical important traits are therefore essential. We welcome novel research and reviews covering all the related topics.

Guest Editors

Dr. Lifeng Gao

Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Prof. Jizeng Jia

Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Deadline for manuscript submissions

closed (20 October 2022)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 6.5
Indexed in PubMed



mdpi.com/si/118593

Plants

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 4.0
CiteScore 6.5
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, and 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)