plants

an Open Access Journal by MDPI

IMPACT FACTOR 4.0

Indexed in: PubMed

CITESCORE 6.5

Genetics, Genomics, and Biotechnology for Cereal Crop Improvements

Guest Editors:

Dr. Yin Li
College of Life Science and Technology, Huazhong University of Science & Technology, Wuhan 430074, China

Prof. Dr. Mingjie Chen
College of Life Science and Technology, Huazhong University of Science & Technology, Wuhan 430074, China

Dr. Junli Chang
College of Life Science and Technology, Huazhong University of Science & Technology, Wuhan 430074, China

Deadline for manuscript submissions:
20 October 2024

Message from the Guest Editors

Dear Colleagues,

Cereal crops include both major staple food crops (etc. rice, maize, wheat and barley) and minor crops, such as sorghum, millet, pearl millet and teff, which are considered as important sources of dietary fibers, micronutrients and bioactive phyto-compounds. However, several factors have been threatening the global production of cereal crops.

To confront the challenges in crop improvement and to breed cereal crops with higher yield, better environmental adaptability and better quality, molecular genetics, genomics and mutli-omics and biotechnology approaches have been integrated in the up- and down-stream lines of molecular breeding of crops. The major biotechnological tools for cereal crop improvements include (but not limited to) map-based cloning, marker-assisted selection, genomic selection, QTL-mapping, GWAS, transgenic and gene editing technologies, as well as nano-agricultural biotechnologies. As such, we develop this Special Issue to provide a forum with which to address these problems and present new strategies and progress in the improvement of cereal crop species.

plants

IMPACT FACTOR 4.0 | Indexed in: PubMed | CITESCORE 6.5

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 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
𝕏@Plants_MDPI