



plants



an Open Access Journal by MDPI

Bioinformatics in Crop Genetics and Molecular Breeding

Guest Editors:

Prof. Dr. Ji Huang

State Key Laboratory of Crop
Genetics & Germplasm
Enhancement and Utilization,
Nanjing Agricultural University,
Nanjing, China

Dr. Junxian Huang

College of Artificial Intelligence,
Nanjing Agricultural University,
Nanjing, China

Deadline for manuscript
submissions:
closed (29 February 2024)

Message from the Guest Editors

With the rapid increase in omics data and phenotypic data, applications of bioinformatics in fundamental research and crop breeding are much more popular than ever. Integration of omics data and phenomics data provides a promising foundation for exploring on a large scale the genetic basis, critical genes and regulatory network for important breeding traits. Artificial intelligence (AI) has also been widely applied in bioinformatics, genome selection breeding and molecular designing breeding. This Special Issue will highlight the methodologies of omics data mining, bioinformatics databases, crop breeding databases and AI-based breeding applications. Manuscripts regarding the biological issues addressed predominantly via bioinformatics methods are also welcome.



mdpi.com/si/177949

Special Issue



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](https://twitter.com/Plants_MDPI)