Special Issue

Crop Breeding: Molecular Genetics and Genomics

Message from the Guest Editors

In recent years, the research on crop molecular genetics and functional genomics has developed rapidly all over the world, with the research on high-yield traits, highvalue nutrients and related genes especially receiving more attention. The significant development in functional genes and technology-related research has played a key role in the effective use of modern molecular biology methods for the genetic improvement of species. Nowadays, modern crop molecular breeding technology represented by molecular marker breeding, transgenic breeding and molecular design breeding has gradually become the mainstream technology of crop breeding worldwide. By combining molecular markers with classical breeding techniques, crop molecular breeding has more advantages when it comes to improving crop yield and quality, significantly improving planting efficiency. The application of genetic engineering technology to improve crop breeding has also become a new effective method. This Special Issue will provide a brief overview of molecular genetics- and genomics-based crop breeding and how to continuously improve and maintain crop quality.

Guest Editors

Prof. Dr. Jianghua Chen

Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, 88 Xuefu Road, Kunming 650223, China

Prof. Dr. Zhenlan Liu

State Key Laboratory for Conservation and Utilization of Subtropical Agro-bioresources, College of Life Sciences, South China Agricultural University, Guangzhou 510642, China

Deadline for manuscript submissions

closed (31 August 2024)



Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/167375

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/plants





Plants

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



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)

