Special Issue

Genetic Mapping of Agronomic Traits in Crops

Message from the Guest Editor

The global challenge of feeding a growing population under climate change necessitates accelerated crop improvement. Revealing the genetic basis of key agronomic traits including yield, disease resistance, abiotic stress tolerance, and nutrient efficiency—is critical for sustainable crop improvement. This Special Issue invites original research and reviews leveraging genetic mapping approaches (e.g., QTL analysis, GWAS, multi-omics integration, and CRISPR-based validation) to dissect the molecular architecture of the traits in crops. Contributions addressing gene-environment interactions, epigenomic regulation, or translational applications (e.g., marker-assisted breeding) are also particularly encouraged. By advancing our understanding of crop genetics, this collection aims to accelerate the development of climate-resilient and high-yielding varieties, ensuring global food security.

Guest Editor

Dr. Fengxia Liu

Frontiers Science Center for Molecular Design Breeding (MOE), Department of Plant Genetics and Breeding, China Agricultural University, Beijing 100193, China

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

mdpi.com/journal/plants

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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

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