Special Issue

Exploring Genes for Crop Breeding and Improvement

Message from the Guest Editors

Crops have been domesticated over hundreds and thousands of years due to human discovery and selection. Today, the world's population is growing rapidly, and environmental degradation and outbreaks of pests and diseases are significantly affecting crops. By 2050, the world's population will reach 9.1 billion, and food production will need to increase to 1.7 times its current level to meet the growing demand for food. Recent technological advances have led to rapid progress in the exploration and discovery of genes for crop breeding and improvement, regardless of the genome size in crop. New technologies are also advancing the search for useful genes from underutilized plant genetic resources. This Special Issue on "Exploring Genes for Crop Breeding and Improvement" will include papers on both basic and applied research highlighting all aspects of crop breeding, from genome sequencing to DNA marker development, the identification of QTLs or genes, genetic engineering, and the development of new technologies related to gene discovery for the breeding and improvement of various crops, including horticultural crops.

Guest Editors

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Deadline for manuscript submissions

closed (30 October 2023)



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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

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