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, high-value 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.

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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.

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