

Special Issue

Crop Germplasm Resources, Genomics, and Molecular Breeding

Message from the Guest Editors

Crops are mainly divided into food and commercial crops, which are important raw materials for human survival. Crop germplasm resources play an increasingly important role as the core during crop breeding in terms of food security. With the development of the genome sequencing of crops and the completion of the re-sequencing of a large number of germplasm resources in recent years, it has become clear that using genomics is an effective and rapid method for discovering genes responsible for complex quantitative traits in various crops and also provide a solid foundation for exploring the genetic formation of important agronomic traits and improving the environmental adaptability of crops via molecular breeding techniques in the future.

Germplasm resources are the vital basis of crops' genetic improvement. However, a few genes from the natural germplasm have been cloned, validated, and dissected for their genetic mechanisms in various crops so far. Therefore, it is of great significance to accelerate the accurate identification of crop genetic resources and their regulation during development via combining genomics and molecular breeding techniques.

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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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