Special Issue

Discovery and Utilization of Germplasm Resources in Rice

Message from the Guest Editors

Rice is a major food crop for over half of the world's population, its yield having experienced two quantum leaps benefitting from the introduction of semidwarf varieties and the utilization of heterosis. As a model cereal crop, the complete genome sequence of rice laid the foundation for functional genomics research and breeding. Recent advances in quantitative trait loci (QTLs), genome-wide association studies (GWAS), CRISPR gene editing, and transgenic analysis have facilitated the identification and functional analysis of important genes from rice germplasm resources. This Special Issue, concerning the "Discovery and Utilization of Germplasm Resources in Rice", aims to focus on progress related to the identification and evaluation of germplasm resources, creation of novel germplasms based on the genetic effect of important QTLs/genes, utilization of germplasms for gene cloning, and breeding novel varieties for rice production.

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