Special Issue

Molecular Marker Assisted Crop Breeding

Message from the Guest Editor

Molecular marker-assisted breeding has allowed breeders to increase crop production dramatically over the last 30 years. Marker-assisted selection (MAS) shortens the breeding period as well as reducing costs related to developing customized new varieties with superior traits (disease resistance, salt resistance, high quality, high yield, etc.). The availability of the genome sequence for important crop species has now made it easy to find millions of molecular markers which can be used for the genetic dissection of agronomic traits and crop breeding. However, it is still necessary to develop molecular markers that are easily and quickly detected and highly reproducible so that they can be applied to actual breeding programs. We would like to invite research articles or reviews that are related to the identification of molecular markers linked to quantitative trait loci (QTLs)/genes through various genomic tools, including bi-parental QTL approaches, genome-wide association studies (GWAS), site-directed mutagenesis, etc., and their application for MAS for the development of new cultivars with superior traits in crops.

Guest Editor

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