

Special Issue

Molecular Genetics, Genomics and Biotechnology of Crop Plants Breeding—Series III

Message from the Guest Editor

Genetic improvements in crop plants are greatly facilitated by molecular markers because a single technology platform can assist selection across traits and plant species. The current demand for plant-based protein calls for reviving the breeding of legumes, where molecular markers can speed up the introgression of traits from historic cultivar and heirloom plant collections. Array-based markers have their advantages, but these are not available for many plant species and seem less useful for allele mining in landraces.

Genotyping-by-sequencing is a cost-efficient alternative for smaller crops. Molecular markers are already being used to explore genotype-by-environment interaction, and a new challenge is the “enviromics” of breeding cultivars for the Target Population of Environments.

We welcome research papers and reviews on the use of molecular marker technologies, genomics selection, site-directed mutagenesis, gene-discovery by genome-wide association studies, and biotechnology in crop plants. In particular, improving the quality traits and productivity of crops for food, feed, and industrial uses and the above-mentioned themes are especially welcome.

Guest Editor

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