

Special Issue

Marker Development in the Genomics Era

Message from the Guest Editors

Marker-assisted selection plays an important role in crop breeding. Single nucleotide polymorphisms are becoming major markers due to their abundance in genomes and amenability for high-throughput detection platforms. Advances in next-generation sequencing and genomics studies have enabled us to accurately locate SNPs in specific positions in genome, and association mapping using SNPs covering the whole genome has facilitated the quick identification of markers tightly linked to genes affecting target. Several PCR-based SNP detection techniques have been developed, increasing the SNP detection flexibility and making SNPs user-friendly markers for either anchoring candidate genes in specific genomic regions or performing efficient selection in breeding. To gain insight into marker development in genomics era, we organize a Special Issue on “Marker Development in the Genomics Era” to bring together knowledge on using different SNP detection techniques and their applications in gene identification, gene isolation, gene editing, and MAS/genomic selection in breeding to improve host resistance to biotic and abiotic stresses, nutrition, quality, and processing properties.

Guest Editors

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Deadline for manuscript submissions

closed (28 October 2022)



Agronomy

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Impact Factor 3.4
CiteScore 6.7



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Editor-in-Chief

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