



Marker Development in the Genomics Era

Guest Editors:

Dr. Chenggen Chu

Dr. Tianqing Zheng

Dr. Zhaoming Qi

Prof. Dr. Xiaojun Nie

Deadline for manuscript
submissions:

closed (28 October 2022)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi