

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

Prof. Dr. Søren Kjærsgaard Rasmussen
Department of Plant and Environmental Sciences, University of Copenhagen, Thorvaldsensvej 40, DK-1871 Copenhagen, Denmark

Deadline for manuscript submissions

closed (15 December 2022)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/119760

Agronomy
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

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

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), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)