

## Special Issue

# Gene Editing and Molecular Markers for Crops Genetics and Breeding

### Message from the Guest Editors

Due to the global population explosion and climate change, the yield of major crops needs to double to satisfy the diet demands by 2050. The new breeding techniques provide an opportunity to develop crops with higher production. Molecular markers are well-known tools for breeding selection, which is important for foreground and background selection. Gene editing is becoming the most popular technique to create mutants for genetic study and can also improve a specific variety quickly in a short period. Therefore, the combinational use of marker selection and gene editing will be the best way to break through the ceiling of crop production. This Special Issue focuses on various dimensions of the efficient use of molecular markers or gene editing for crop genetics and breeding research. Submissions of molecular marker research could cover the development of functional markers targeting important genes and marker packages suitable for population discrimination, gene mapping, and breeding selection. Gene editing research could include the creation of beneficial alleles of known genes or function validation of unknown genes and clarifying the phenotypic effect of different mutations.

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## Agriculture

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## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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