Germplasm Enhancement and Breeding for Rice Quality Improvement

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Deadline for manuscript submissions:
closed (20 December 2022)

Message from the Guest Editors

Grain quality is a combination of the physical and chemical characteristics required for a specific use by a specific customer class. Most traits that are genetically controlled by many loci are quantitative. Therefore, rice grain quality formation is very complex. The mining of desirable genes or alleles is the most economical and effective method to improve grain quality, and molecular breeding is another powerful method for improving quality in rice. Skills have been developed for the utilization of specific germplasms to identify functional genes, molecular-assisted marker selections, gene pyramiding, and the manipulation of genes. Therefore, more molecular studies on the mechanisms of grain quality formation are necessary for high-quality rice breeding.

We welcome any papers that focus on the subject of germplasm enhancement and breeding for the improvement of rice quality, with topics including, but not limited to, the application of molecular tools in rice grain quality improvement, understanding the mechanisms of rice grain quality formation, new genes or germplasm discoveries, and integrated techniques to develop high-quality varieties or new germplasms of rice.

mdpi.com/si/120922

Special Issue

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Message from the Editor-in-Chief

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