

Special Issue

Breeding and Genetic Research of Cereal Grain Quality

Message from the Guest Editor

This Special Issue deliberates on the concepts, strategies, tools, and techniques of classical genetics and advanced quantitative genetic approaches to measuring the potential of the current cereal genome, including studying breeding strategies, studying evolution patterns, the discovery of superior alleles, discerning new haplotypes, the assessment of intra- and interspecific genome similarity, and studies of gene expression and gene prediction. The topics of papers we are soliciting include:

- Classical breeding;
- Molecular breeding;
- Quantitative genetics of grain-quality traits;
- Allele mining;
- Association mapping of grain-quality traits;
- Genetic mapping of grain-quality traits;
- Pre- and post-harvest scenarios affecting grain-quality traits;
- Biotic factors affecting grain quality in cereals;
- Abiotic factors affecting grain-quality traits;
- Agronomic factors affecting the grain quality in cereals;
- Plant physiology and potential relationship with the grain quality;
- Carbon partitioning and translocation and their potential impact on grain quality;
- Optimization of the milling methods to improve grain quality.

Guest Editor

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Deadline for manuscript submissions

closed (25 July 2024)



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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

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