Special Issue

Molecular Quantitative Genetics Applied to Plant Breeding

Message from the Guest Editors

Quantitative genetics has been used by plant breeders over the years to systematically select germplasm for crop improvement. This has been enhanced with the use of molecular markers, which enabled the identification of genes or quantitative trait loci (QTL), and consequently marker-assisted selection, for economically-important traits of interest. Advances in molecular marker and computer technologies have contributed to significant progress in the field of plant molecular quantitative genetics. The development of single-nucleotide polymorphism markers enables high-throughput genotyping at a lower cost. Modern computers can analyze large datasets, as well as conduct simulations, using complex statistical models. These recent developments are expected to improve efficiency in selecting the germplasm whose genotypic values best meet the breeder's objectives.

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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.

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