

Special Issue

QTL Mapping for Yield and Quality Traits in Crops

Message from the Guest Editor

Increasing crop yields and improving quality are eternal topics in agricultural research. The supply of sufficient and high-quality agricultural products is key to ensuring the sustainable development of humankind in the future. Yield and quality are often difficult to achieve to a high level in synergy, but that does not mean they are impossible. Reasonable gene or locus combinations are the basis for the improvement of yield and quality. Presently, many crops are still extremely weak in QTL mapping and gene identification, and the improvement of yield or quality through genetic manipulation cannot be carried out widely and efficiently. Discovering QTL and genes is not only the first step toward understanding the molecular basis of yield and quality, but also a prerequisite for establishing efficient marker-assisted breeding technology and conducting gene identification and editing. This Special Issue will focus on mapping QTL, identifying key genes, establishing and applying marker-assisted breeding technology, and studying the molecular basis of yield and quality, with the purpose of promoting the improvement of crop yield and nutritional quality.

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2022)



Agriculture

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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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