Special Issue

Identification and Validation of Quantitative Trait Loci for Important Agronomic Traits in Food Crops

Message from the Guest Editors

A quantitative trait is generally controlled by several genes. Therefore, quantitative traits are usually detected by quantitative trait loci (QTL) or genome-wide association (GWAS) analyses. The important agronomic traits of food crops, such as plant height, thousand kernel weight, tiller number, kernel number per spike, and even several resistance traits, are typical quantitative traits. The analysis of these quantitative traits is of great significance for ensuring the high yield, disease resistance, as well as marker-assisted selection (MAS) of food crops. The objective of this Special Issue is to publish articles detailing progress in research involving QTL or GWAS analyses of food crops. Review and original research articles are both welcome on the following topics of interest: QTL analysis of important agronomic or disease resistance traits of food crops;
GWAS analysis of important agronomic or disease resistance traits;
Meta-QTL analysis of important agronomic or disease resistance traits;
New methods/new phenotyping tools/new genomic tools/new strategies aimed at increasing resolution in the detection of QTL in food crops;
Molecular marker design and validation of QTL;

Guest Editors

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Deadline for manuscript submissions

closed (30 August 2023)

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About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

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