genes

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

Indexed in: PubMed

CITESCORE 5.5

Marker-Trait Association Analysis in Horticultural Crops

Guest Editor:

Dr. Mario Di Guardo
Department of Agriculture, Food and Environment (Di3A), University of Catania, Via Valdisavoia 5, 95123 Catania, Italy

Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editor

The world demand for horticultural crop is in continuous increase. To this extent, a deep understanding of the genetic basis regulating phenotypes of interest represents an important prerequisite both to understand the trait physiology and for breeding. The rapid advent of high-throughput genotyping platforms enabled the simultaneous interrogation of hundreds of thousands of single nucleotide polymorphisms (SNP) employing a dedicated array or through whole-genome resequencing (WGS) approaches. The identification of molecular markers in strong linkage with a quantitative trait locus (QTL) provides useful insights to understand the genetic determinism of traits of agronomical relevance. Furthermore, molecular markers can represent a valuable tool for breeders for a genetic-guided seedling or parental selection. Indeed, the use of molecular markers in strong linkage with an agronomical trait allows a fast and relatively inexpensive screening of seedlings with consequent reduction in the time and space needed to develop novel cultivars showing superior phenotypic characteristics.

mdpi.com/si/44903

Special Issue

GCAT
TACG
GCAT
genes

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

Indexed in: PubMed

CITESCORE 5.5

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Experimental Cancer Therapeutics, The University of Alabama at Birmingham, 1825 University Blvd., SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.
Journal Rank: JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
𝕏@Genes_MDPI