



genes



an Open Access Journal by MDPI

Quantitative Genetics and Genomics to Accelerate Plant Breeding Research

Guest Editor:

Dr. Sandip Kale

Leibniz Inst Plant Genet
& Crop Plant Res IPK,
Corrensstr 3, D-06466
Gatersleben, Germany

Deadline for manuscript
submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Development of high-yielding, stress-tolerant varieties is needed today to meet the food demand of a burgeoning human population. This can be achieved by understanding the genetic nature of traits, screening the germplasm and utilizing traditional/sophisticated plant breeding techniques to transfer the trait in an elite background.

Since their discovery, molecular markers have been used at various stages viz. to understand genetic diversity; quantitative trait locus (QTL) mapping; marker assisted selection (MAS); genomic selection; etc. in crop improvement programs. Further, advancements in sequencing technology have made it possible to effectively develop several thousand markers within a limited time. As a result, the quantitative genetics principles can now be effectively utilized in current crop improvement programs.

This Special Issue calls for original articles, reviews, and perspectives that utilize Genetics and Genomics approaches for genetic dissection of agronomically important traits and their utilization in crop improvement programs.



mdpi.com/si/59430

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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](#)