Special Issue

Genetic Improvement of Cereals and Grain Legumes

Message from the Guest Editors

Cereals and grain legumes constitute a significant portion of human diets. It is urgently needed to characterize available genetic resources by application of genomics. This technology will facilitate the identification of specific germplasms, mapping traits related to biotic and abiotic stresses, and yield-related traits. Furthermore, it shall improve the current nutritional values of cereals and legume crops. Advances in genomic tools and the availability of whole-genome sequences have opened up new avenues in crop genetic improvement. Hence, novel ideas from exploring the genetic potential to genetic manipulation are needed. We cannot expect to continue to make major strides in improving yield of cereal and grain legumes by employing strictly conventional breeding approaches. This Special Issue will focus on the discovery of genome-scale diversity, genetic improvement of cereals and grain legumes for higher yields, and enhancement of ability to withstand a changing climate by employing principles of modern genetics and genomics.

Guest Editors

Prof. Dr. Gyuhwa Chung

Department of Biotechnology, Chonnam National University, Yeosu, Chonnam 59626, Korea

Dr. Muhammad Amjad Nawaz

Laboratory of Supercritical Fluid Research and Application in Agrobiotechnology, The National Research Tomsk State University, 36, Lenin Avenue, 634050 Tomsk, Russia

Deadline for manuscript submissions

closed (15 July 2020)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/32499

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

mdpi.com/journal/genes

MDPI

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/journal/genes

MDPI

About the Journal

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?

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

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))