

Special Issue

Advances in Breeding and Genetics of Wheat

Message from the Guest Editors

As one of the most important staple crops, bread wheat (*Triticum aestivum* L.), with approximately 765 million tonnes produced annually, provides carbohydrates, protein, vitamins, fibre, and minerals to 30%~40% of people in the world. In the past, growers mainly paid attention to their wheat yield. Currently, wheat production is facing new challenges with global climate change, the increasing population, and the demand for high-quality products. Although many researchers have conducted studies aiming to improve the yield, biotic and abiotic stress, plant development, and seed quality of wheat, further investigation is needed to understand these mechanisms using transgene methods, multi-omics, genome-wide association studies, and physiology. The aim of this Special Issue is to gather significant research in order to understand the genetics and physiological regulation mechanisms of these important traits in wheat. Gene function analyses and multi-omics approaches to these analyses are encouraged. But our interest is not limited to these methods.

Guest Editors

Dr. Jianhui Ma

College of Life Science, Henan Normal University, Xinxiang 453007, China

Dr. Shuaifeng Geng

National Key Facility for Crop Gene Resources and Genetic Improvement, Institute of Crop Science, Chinese Academy of Agricultural Sciences, Beijing 100081, China

Deadline for manuscript submissions

closed (25 January 2025)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/205037

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

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



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
Experimental Cancer Therapeutics, 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))