

## 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.

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### 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

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### Deadline for manuscript submissions

25 January 2025

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## Genes

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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto:genes@mdpi.com)

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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.

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### 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

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