

## Special Issue

# Genomics and Breeding of Wheat

### Message from the Guest Editors

As a vital staple crop, wheat (*Triticum aestivum* L.) feeds billions of people worldwide, supplying essential nutrients such as carbohydrates, proteins, and minerals. However, global climate change, population growth, and increasing demands for high-quality wheat products pose significant challenges to production. Advances in genomics and molecular breeding, including gene editing, genome analysis, and functional studies, provide powerful tools to dissect key agronomic traits such as disease resistance, yield, and stress adaptation. This Special Issue aims to compile cutting-edge research on wheat genomics and breeding, focusing on gene discovery, genomic diversity, functional analysis, and innovative breeding strategies. We welcome studies utilizing multi-omics, genome-wide association analysis, transgenic approaches, and physiological investigations. Contributions exploring genes and broader genomic applications are encouraged to advance wheat improvement and sustainable agriculture.

### Guest Editors

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### Deadline for manuscript submissions

26 July 2026

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## Genes

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### 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?

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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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