# Special Issue

# Molecular Breeding for Wheat Disease Resistance

#### Message from the Guest Editor

Wheat is the most important cereal crop of humankind, with the largest current cultivation area. The success of wheat cultivation can significantly influence the situation of plant growers and the national economy. The genetic vield potential of modern, currently cultivated wheat varieties is modified by several factors. However, wheat yields are significantly threatened by several pathogens, which cause an estimated 11.6% annual yield loss in global production. Breeding resistant varieties is the most economical and ecofriendly way to protect against plant diseases. The scope of this field encompasses the identification and functional analysis of resistance genes and quantitative trait loci (QTLs), the development and deployment of molecular markers, and the use of omics technologies (genomics, transcriptomics, and proteomics) to better understand host-pathogen interactions. It also includes the strategic pyramiding of multiple resistance genes for durable protection and the ongoing surveillance of pathogen evolution to ensure long-term effectiveness.

#### **Guest Editor**

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#### Deadline for manuscript submissions

closed (15 November 2025)



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