

Special Issue

Molecular Research Progress of Cereal Crop Disease Resistance

Message from the Guest Editors

Cereal crops, vital for global food security & nutrition, face myriad challenges from pathogens like fungi, bacteria, nematodes, & viruses, threatening yields & food supply. Molecular research on disease resistance is crucial in cereal breeding programs. This Special Issue explores the latest progress & trends in discovering novel resistance genes, their molecular characterization, regulatory networks, & marker-assisted selection.

Key areas include:

Novel resistance gene sources from diverse backgrounds, including wild relatives & landraces.

Molecular dissection of resistance genes to understand their structure, function, & mechanisms.

Unraveling complex regulatory networks controlling resistance gene expression for insights into activation & interactions.

Marker-assisted selection in breeding to accelerate the creation of disease-resistant cultivars.

This Issue compiles pioneering research & reviews, offering a comprehensive view of molecular mechanisms underpinning cereal crop disease resistance.

Guest Editors

Prof. Dr. Hongjie Li

1. The National Engineering Laboratory of Crop Molecular Breeding, Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, Beijing 100081, China

2. Xianghu Laboratory, Institute of Biotechnology, Hangzhou 311231, China

Prof. Dr. Zhenqi Su

College of Agronomy and Biotechnology, China Agricultural University, Beijing 100193, China

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4052 Basel, Switzerland
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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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