

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.

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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