

Special Issue

Genetic Dissection of Plant Responses to Biotic and Abiotic Stresses: From Gene Discovery to Functional Mechanisms

Message from the Guest Editor

Dear Colleague,

Plants are constantly exposed to a wide range of biotic and abiotic stresses, including pathogen infection, mycotoxin contamination, drought, salinity and temperature extremes. Understanding the genetic and molecular mechanisms underlying plant responses to these stresses is essential for improving crop resilience, productivity and food safety.

Recent advances in high-throughput genomics, such as genome-wide association studies (GWAS), transcriptomics and gene editing technologies, have greatly accelerated the identification and functional characterization of stress-responsive genes.

This Special Issue aims to provide a comprehensive overview of recent progress in plant stress biology, with particular focus on gene discovery, functional validation and mechanistic insights. We welcome original research articles and reviews that address. By integrating genetic, molecular and physiological perspectives, this Special Issue seeks to advance our understanding of how plants perceive and respond to environmental challenges and to facilitate the development of stress-resilient crops.

Guest Editor

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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?

Editor-in-Chief

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