Special Issue

Genetics of Biotic and Abiotic Stress Response in Crops

Message from the Guest Editor

Biotic and abiotic stresses are the main constrains of plant growth and production, and will become more prevalent in the coming decades due to global climate change. Plant responses to these stresses are complex, involving multiple mechanisms at cellular, molecular, and physiological levels with contributions from genetic, environment, and their interactions. Findings from genetic studies help to pinpoint potential manipulation targets for genetic engineering and classical breeding for the development of resistant cultivars. The goals of this Special Issue are a) to develop better knowledge of the classical, molecular and functional mechanisms of resistance/tolerance to biotic and abiotic stresses in order to develop more effective strategies for improving crop productivity under stress conditions and b) to explore the biochemical/physiological/genetic strategies adopted by plants that assist them in stress resistance/adaptation using a variety of molecular and functional approaches, including genomic architecture. In this Special Issue, we invite scientists from various fields of research to report their findings on the genetics of biotic and abiotic stresses.

Guest Editor

Prof. Dr. Ahmad Arzani
College of Agriculture, Isfahan University of Technology, Isfahan, Iran

Deadline for manuscript submissions

closed (20 July 2023)

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/si/142891

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

mdpi.com/journal/genes

MDPI

GCAT
TACG
GCAT

Genes

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed

mdpi.com/journal/genes

MDPI

About the Journal

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

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))