



genes



an Open Access Journal by MDPI

Genetics of Biotic and Abiotic Stress Response in Crops

Guest Editor:

Prof. Dr. Ahmad Arzani

College of Agriculture, Isfahan
University of Technology, Isfahan,
Iran

Deadline for manuscript
submissions:

closed (20 July 2023)

Message from the Guest Editor

Dear Colleagues,

Biotic and abiotic stresses are the main constraints 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.



mdpi.com/si/142891

Special Issue



genes



an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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?

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 & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](https://twitter.com/Genes_MDPI)