

Special Issue

Genetics and Physiology of Multiple-Stress Tolerance in Crops

Message from the Guest Editor

Recent advances in crop physiology, new phenotyping techniques, genomics, and integrative gene-to-phenotype modeling have led to a better understanding of crop tolerance and resilience to individual environmental stress. This has resulted in greater knowledge of the gene networks underlying responses to a specific stress and new tools for plant improvement to increase crop performance. Due to the intrinsic complexities of most stress-tolerance traits, the investigation of crop responses to several simultaneous stresses remains a challenging task. Such research is particularly important as, in nature, concurrent stresses are commonplace. Moreover, the risk of multiple stresses occurring under climate change is expected to exacerbate. The aim of this Special Issue is to provide valuable insights into crop tolerance and resilience to both abiotic and biotic stresses by covering multidisciplinary studies ranging from physiological, biochemical, molecular, and modeling analyses. All studies investigating crops coping with any combination of at least two stresses are welcome.

Guest Editor

Dr. Domagoj Šimić

Department of Maize Breeding and Genetics, Agricultural Institute Osijek, 31000 Osijek, Croatia

Deadline for manuscript submissions

closed (20 September 2021)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/47601

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

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



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
Experimental Cancer Therapeutics, 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))