

## Special Issue

# Genetic Mechanism of Plant Responses to Environmental Stresses

### Message from the Guest Editor

As sessile organisms, plants must cope with different environmental stresses in their life span, including drought, flooded condition, hypoxia, salt, heavy metal, metalloid, nutrition deficiency, ultraviolet radiation, high light, high or low temperature, as well as the interaction or combination of different stresses. In the last two decades, great progress have been made regarding the genetic mechanisms of plant responses to environmental stresses, involved in the different aspects like stress sensing and signaling, transcription regulation and processing, as well as translation and post-translational protein modifications. This has enabled research on more genetic engineering strategies and methods to increase plant resilience to environmental stress. In this Special Issue, we would like to invite submissions of high-quality original research or review articles on topics related to genetic and genomic studies of plant responses to various environmental stresses.

### Guest Editor

Prof. Dr. Yin'an Yao

School of Life Science and Engineering, Southwest University of Science and Technology, Mianyang 621010, China

### Deadline for manuscript submissions

closed (20 February 2023)

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/130602](https://mdpi.com/si/130602)

*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto:genes@mdpi.com)

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

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



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  
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))