

## Special Issue

# Genetic and Molecular Breeding of Woody Plants

### Message from the Guest Editor

The genetic and molecular breeding of woody plants has become an essential field of research in horticulture and forestry. Breeding techniques are used to enhance the genetic characteristics of woody plants, aiming to develop varieties with improved traits like disease resistance, growth rate, wood quality, and fruit production. These efforts often involve the manipulation of genes and the exploration of the molecular basis of desirable traits, ultimately contributing to the sustainability and productivity of forest resources and the ornamental horticulture industry.

With this goal in mind, this Special Issue aims to assemble the latest advancements in comprehending the genetics and breeding of woody plants. We welcome research articles for this Special Issue, focusing on a wide range of topics, including (but not limited to) genetic analysis on the enhanced breeding characteristics of woody plants, molecular function elucidation, gene regulatory mechanisms, gene family evolution, expression regulation networks, as well as research related to plant physiology and plant phenomics, and the utilization of high-throughput data in the context of woody plants.

---

### Guest Editor

Prof. Dr. Xiyang Zhao

College of Forestry and Grassland Science, Jilin Agricultural University, Changchun 130118, China

---

### Deadline for manuscript submissions

closed (20 October 2024)

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/189511](https://mdpi.com/si/189511)

*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/  
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  
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))