

## Special Issue

# Epigenetics Regulation in Plant Development and Response to Environmental Stresses

### Message from the Guest Editors

Epigenetic regulation, including DNA methylation, histone modifications, chromatin remodeling, and micro/small-RNA accumulation, have a decisive function in regulating various morphological transitions during plant growth and development. In addition, the epigenomic changes are dynamic in response and adaptation to environmental stimulus, which in turn affect the phenotypic plasticity of organisms.

Understanding how epigenetic regulation shapes and influences plant development is not only important for dissecting the molecular mechanisms of plant responses to the environment, but also for the potential application in the genetic manipulation of plants, in particular, crops, for future food security. We invite submissions of manuscripts (for example, original research and reviews) that provide novel insights into different aspects of plant epigenetics, assessing its function in plant development and plant responses to abiotic and biotic stresses.

---

### Guest Editors

Dr. Jun Xiao  
Dr. Xiang Yu  
Dr. Mingli Xu

---

### Deadline for manuscript submissions

closed (20 June 2023)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/144864](https://mdpi.com/si/144864)

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

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando  
Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### 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, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)