



Role of Epigenetics and Epigenomics in Plant Development and Their Association with Abiotic Environmental Stresses

Guest Editors:

Prof. Dr. Lijia Li

College of Life Sciences, Wuhan University, Wuhan 430072, China

Dr. Mayank Gautam

College of Life Sciences, Wuhan University, Wuhan 430072, China

Deadline for manuscript submissions:

closed (31 July 2023)

Message from the Guest Editors

In this Special Issue, we focus on the current understanding of the regulation and function of the epigenetic modifications, including DNA methylation, histone modification, histone variants, some non-coding RNAs (ncRNAs) and epigenomics, in plant development, such as stomatal development, vernalization, fruit ripening and other developmental processes. This Special Issue also covers the tight associations between epigenetic modifications and a wide range of abiotic environmental stresses, including heat, cold, drought, high salinity, pesticides, climate change and other conditions.

Authors are invited to submit original research and review articles on the following areas and related areas that are not mentioned here:

- Role of epigenetics and epigenomics in plant growth and development;
- Dynamic regulation of epigenetics and epigenomics in response to abiotic environmental stresses in plants, and in epigenetic transgeneration stress adaptation;
- Epigenetics and its association with gene regulation, transposon silencing and chromosomal interaction;
- Crosstalk among distinct epigenetic regulatory pathways.





an Open Access Journal by MDPI

Editor-in-Chief

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

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, 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.

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)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)