

Special Issue

Epigenetic Control Mechanisms and Transcriptional Reprogramming in Plants

Message from the Guest Editor

Reprogramming gene expression enables plants to undertake major developmental steps and to respond to environmental threats. The central motor of this process is a coordinated, fine-tuned reorientation of expression of genes, preparing the cells for new tasks. We know that the network-like structured action of transcription factors downstream of different signal pathways plays a central role in this process. Rather recently, it became obvious that upstream of transcription factors there is an epigenetic control level, regulating reprogramming of gene expression via histone modifications and DNA methylation. This Special Issue of *Plants* will bring together work on epigenetic mechanisms, controlling major developmental steps or stress responses in plants, with interconnected regulatory levels of gene expression via trans-acting factors.

Guest Editor

Prof. Dr. Klaus Humbeck

Director of the Institute of Biology/Plant Physiology, Martin-Luther-Universität Halle-Wittenberg, Weinbergweg 10, D-06120 Halle (Saale), Germany

Deadline for manuscript submissions

closed (31 March 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/87913

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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, 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)