

Special Issue

Genetic Regulation Mechanism of Cadmium Accumulation and Tolerance

Message from the Guest Editors

Farmland serves as the foundation for the growth of food and economic crops, and the protection and safe utilization of farmland are crucial not only for national economic development but also as a fundamental requirement for the dietary health of people. Cadmium, a common pollutant in farmland soil, is a non-essential element for plants with strong biological toxicity and rapid migration characteristics. While various advanced technologies such as physical and chemical remediation have been effectively used to prevent and control heavy metal pollution in farmland, they often come with high treatment costs and are large-scale projects. The cultivation of cadmium hyper-accumulating plants to extract cadmium from farmland soil is a widely studied and promising method. This Special Issue will encompass a broad range of fields to provide a comprehensive understanding of plant cadmium accumulation from multiple perspectives.

Guest Editors

Dr. Jinqiu Liao

College of Life Science, Sichuan Agricultural University, Yaan 625014, China

Dr. Mingxi Zhou

School of Environment, Nanjing Normal University, Nanjing 210023, China

Deadline for manuscript submissions

20 December 2025



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/206216

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)