

## Special Issue

# Molecular Mechanisms and Mitigation Strategies for Heavy Metal Stress Decoding in Crop Plants

### Message from the Guest Editors

This Special Issue aims to highlight cutting-edge research that elucidates these intricate tolerance mechanisms: from signaling pathways and gene regulation to metal homeostasis and detoxification. Furthermore, we encourage submissions to explore innovative mitigation strategies designed to bolster crop resilience. This includes advances in genetic engineering, the application of beneficial microorganisms, the use of soil amendments, and the development of priming techniques. We welcome original research, reviews, and short communications that contribute to the development of sustainable solutions for alleviating heavy metal stress in crops, ultimately aiming to ensure food safety and support sustainable agricultural practices in contaminated environments.

### Guest Editors

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### Deadline for manuscript submissions

31 October 2026



## Plants

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### 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.

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### Editor-in-Chief

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