

Special Issue

Uptake, Translocation, and Metabolism of Trace Metals in Plants

Message from the Guest Editors

Trace metals can be essential micronutrients, but they can also be extremely toxic to plant growth and human health. Trace metal concentrations in diverse environments vary greatly due to natural and anthropogenic factors, ranging from deficiency to highly toxic levels. A better understanding of trace metal behavior in plants may contribute to the development of strategies for 1) the phytoremediation of toxic heavy metals (such as Cd, Pb, Hg, and Cr) by using hyperaccumulator or accumulator plants, 2) the biofortification of micronutrients, particularly Zn, Fe, and Se, for better human health, and 3) molecular and physiological detoxification mechanisms of toxic metals in crop plants. Therefore, one focus of plant research is on the response to trace metals in terms of uptake, transport, sequestration, speciation, physiological use, deficiency, toxicity, and detoxification. For this Special Issue, we invite investigators to contribute original research articles and review articles that will stimulate efforts contributing to enhancing our understanding of trace metal behavior in plants.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2022)



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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