

Special Issue

Plant Responses to Heavy Metals: From Deficiency to Excess

Message from the Guest Editors

Some heavy metals, such as copper, manganese, nickel, and zinc, are essential for most plants but toxic when supplied in supraoptimal quantities, while the biological role for cadmium, mercury, and lead, with rare exceptions, is unknown and they are toxic even at fairly low concentrations in the environment. Both metal deficiency and metal excess can drastically affect different physiological processes in plants, leading to significant changes in plant growth and morphogenesis as well as plant productivity. This Special Issue is focused mainly on the mechanisms of metal effects, plant response to heavy metals, metal tolerance, and metal (hyper-)accumulation at the biochemical, physiological, molecular, genetic, and epigenetic levels. Dr. Ilya Seregin Dr. Anna Kozhevnikova

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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