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Plant Responses to Heavy Metals

Guest Editor:

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Deadline for manuscript submissions:

closed (31 December 2022)

Message from the Guest Editor

Dear Colleagues,

The focus of this Special Issue on "Plant Responses to Heavy Metals" is primarily on the mechanisms underlying metal toxicity. metal tolerance, and metal (hyperlaccumulation phenomena. particularly "metallophytes", i.e., plant species with the ability to genetically adapt to "metalliferous" soils. Special attention will be paid to the biochemical and molecular mechanisms metal-specific "hypertolerance" underlying "hyperaccumulation" phenomena, i.e., the identification of the transporters and chelators involved in metal uptake. plant-internal transport and sequestration, as well as their activities and localization patterns at the levels of organs and tissues, and subcellularly. In particular, studies from an evolutionary viewpoint are highly appreciated. (How did the trait evolve? Why only in a small minority of plant species? Is this related to "chromosomal instability" (e.g., local duplication)? How?).

Dr. Henk Schat Guest Editor













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Message from the Editor-in-Chief

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