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Metal and Metalloid Toxicity in Plants

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Message from the Guest Editor

To enhance primary sector production and productivity while maintaining and improving land quality for future generations, this generation needs to solve the problems limiting the use of soils for high-value crops. Crops cultivated in soils contaminated with toxic metal(loid)s can take up a high concentration of these metal(loid)s by roots and translocate them to their tissues. The contamination of most versatile soils with metal(loid)s threatens to limit their use for high-value pasture, vegetable, grain, and tuber cropping due to the risk of metal(loid) accumulation in the food chain. The management of the quality and quantity of crops grown in soil contaminated with potentially toxic metal(loid)s is a current challenge. Hence, investigating potential mechanisms that may play roles in metal(loid) uptake and translocation in plants could help to develop mitigation strategies.

This Special Issue of *Plants* will highlight the rhizosphere chemistry and uptake mechanisms of metal(loid)s, and will propose potential agronomical, microbiological, and molecular biological mitigation strategies to mitigate metal(loid) toxicity in plants.



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Special Issue



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Message from the Editor-in-Chief

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