

Special Issue

Heavy Metals Accumulation, Toxicity and Detoxification in Plants

Message from the Guest Editors

In recent years, heavy metals have been widely used in agricultural, chemical, domestic, and technological applications causing environmental and soil contaminations. Heavy metals enter the plant system through soil or via the atmosphere and can accumulate, affecting physiological processes; plant growth; yield; and human health if heavy metals are stored in edible tissues. Understanding the regulation mechanisms of plant heavy metals accumulation and partitioning is important to improve the safety of the food chain. This Special Issue aims to explore three main issues: (1) The accumulation and partitioning of heavy metals in crops and wild plants; (2) The toxicity and molecular behaviours of cells, tissues, and their effects on physiology and plant growth; (3) Detoxification strategies, plant tolerance, and phytoremediation.

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