

Chapter 6

Mechanisms of Plant Adaptation and Tolerance to Metal/Metalloid Toxicity



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Abstract Metal/metalloid (HM) toxicity/stress has become a worldwide menace due to the rising accretions in water, soil, and air which lead to detrimental effects in plants. The general consequences of HM toxicity include oxidative injury which causes polypeptide oxidation, lipid peroxidation, enzyme inactivation, DNA mutilation, and/or alteration of other key components of plant cells. To limit the hazardous effects of HMs and their accumulation, plants have evolved detoxification

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