



Current status and future prospect of managing lead (Pb) stress through microbes for sustainable agriculture

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Received: 22 November 2022 / Accepted: 25 February 2023 / Published online: 17 March 2023
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Abstract Soil is an important residence under various biotic and abiotic conditions. Contamination of soil by various means has hazardous effects on both plants and humans. Soil contamination by heavy metals occurs due to various man-made activities, including improper industrial and agricultural practices. Among the heavy metals, after arsenic, lead (Pb) was found to be the second most toxic metal and potent pollutants that accumulate in sediments and soils. Pb is not considered an essential element for promoting plant growth but is readily absorbed and accumulated in different plant parts. Many parameters such as pH, root exudation, soil particle size, cation exchange capacity, and other physicochemical parameters are involved in Pb uptake in plants. Excess amounts of Pb pose a threat to plant growth and cause toxicity such as chlorosis, blackening of the root system, and stunted growth. Pb toxicity may inhibit photosynthesis, disturb water balance and mineral nutrition, and alter the hormonal status, structure, and membrane permeability of plants. Therefore, this review addresses the effects of Pb toxicity and its impact on plant growth, including the morphological, physiological, and biological effects of Pb toxicity, the mechanisms behind different strategies promoting plant growth, and in combating Pb-induced stress. The bioremediation strategy for Pb removal from Pb-contaminated soil also plays an important role in combating Pb toxicity using bacterial

community. Pb-contaminated soil may be remediated using different technologies such as rhizofiltration and phytoremediation, which tend to have a great capacity to curb Pb-contamination within the soil.

Keywords Lead · PGPR · ROS · Antioxidants · Phytoremediation · Rhizofiltration

Abbreviations

ACC	1-Aminocyclopropane-1-carboxylic acid
PGPM	Plant growth-promoting microbes
Pb	Lead
PGPR	Plant growth-promoting bacteria
ROS	Reactive oxygen species
HCN	Hydrogen cyanide
MDA	Malondialdehyde
Po	Organic phosphorus
Pi	Inorganic phosphorus
IAA	Indole acetic acid
BNF	Biological nitrogen fixation
HM	Heavy metal
EPS	Extracellular polymeric substances
PAMs	Plant-associated microbes
PSB	Phosphate solubilizing bacteria

Introduction

Soil is a non-renewable and precious ecological system that has been subjected to wide decline due to various anthropogenic concerns. The direct release of waste from process industries, civic sprawl, illegal dumping, and waste disposal without proper resource recovery are

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