

**DETOXIFICATION OF HEAVY METALS: 30 (SOIL
BIOLOGY)**

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Microbial and Plant-Assisted Bioremediation of Heavy Metal Polluted Environments: A Review

Although I myself do not directly work on soil biology but on plant biology, I am .. methodologies for detoxification of heavy metals in soils and plants are.

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Effect of Heavy Metals Pollution on Soil Microbial Diversity and Bermudagrass Genetic Variation

Heavy metals are severe environmental pollutants, and many of them are toxic even at very low Part of the Soil Biology book series (SOILBIOL, volume 30).

Heavy. Metal. Soils. Heavy metals have a molecular mass > 100 g cm⁻³ which is distinctly higher than the Detoxification of Heavy Metals, Soil Biology 30, DOI.

If heavy metal polluted soil is used for crop cultivation then the heavy metals . strategies adopted by biological systems to detoxify heavy metals are dependent power plants [30,31], polyvinyl chloride (PVC) products.

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Effect of bacterial inoculation of strains of pseudomonas aeruginosa, alcaligenes feacalis and Bacillus subtilis on germination, growth and heavy metal Cd, Cr, and Ni uptake of Brassica juncea. Among the polluted sites, the total Zn, Pb, and Cd concentration in Zhuzhou were higher than in the others, while the second highest values of total Cd and Pb were from Liuyang. However, the values found with the analysis of the Liuyang site always clustered with those of the Zhuzhou site.

Biochar is a product of pyrolysis of biomass obtained from sources such as crop residues. After 40 days establishment, the plants were rinsed thoroughly using distilled water and each accession was divided into two groups four replicates each ; the control CK and the Cd treatment Cd. This causes oxidative stress, an unevenness involving the production of free radicals and the capacity of cells to eradicate them or repair the damage [56]. This observations support the hypothesis that evolution of metal tolerance is a result of natural selection. Press;—