

عنوان مقاله:

ROLE OF RHIZOBACTERIA IN PHYTOREMEDIATION OF HEAVY METAL CONTAMINATED SOILS

محل انتشار:

دومین همایش ملی تغییر اقلیم و تاثیر آن بر کشاورزی و محیط زیست (سال: 1392)

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خلاصه مقاله:

Heavy metal pollution of soil is a significant environmental problem and has its negative impact on human health and agriculture. Rhizosphere, as an important interface of soil and plant, plays a significant role in phytoremediation of contaminated soil by heavy metals, in which, microbial populations are known to affect heavy metal mobility and availability to the plant through release of chelating agents, acidification, phosphate solubilization and redox changes, and therefore, have potential to enhance phytoremediation processes. Phytoremediation strategies with appropriate heavy metal-adapted rhizobacteria have received more and more attention. This article paper reviews some recent advances in effect and significance of rhizobacteria in phytoremediation of heavy metal contaminated soils. There is also a need to improve our understanding of the mechanisms involved in the transfer and mobilization of heavy metals by rhizobacteria and to conduct research on the selection of microbial isolates from rhizosphere of plants growing on heavy metal contaminated soils for specific restoration programmes.

کلمات کلیدی:

Rhizobacteria, Phytoremediation, Heavy metals, Rhizosphere

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