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Phytoremediation and Biofortification: Two Sides of One Coin is a valuable resource to students, technicians, and academics who are interested in the treatment of environmental problems ...

(PDF) Phytoremediation and Biofortification: Two Sides of

Phytoremediation and Biofortification: Two Sides of One Coin is a valuable resource to students, technicians, and academics who are interested in the treatment of environmental problems (bioremediation) through the use of plants, and in the field of biofortification.

Phytoremediation and Biofortification | SpringerLink

Although phytoremediation and biofortification have different goals, these two processes sometimes can be closely connected. This chapter discusses the applicability of different mineral nutrients (e.g., selenium, iron, and zinc) and toxic metals (such as cadmium and copper) in several suitable plant species.

Phytoremediation and Biofortification: Two Sides of One

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Phytoremediation And Biofortification Two Sides Of One

Biofortification of mineral micronutrients in food crops for the benefit of human nutrition and phytoremediation of metal/metalloid contaminated soils represent two potential biotechnological applications that arise from the research on mineral uptake, transport and metabolism in plants; these two very different goals are in fact the two sides of the same coin [].

Biofortification and phytoremediation - ScienceDirect

PHYTOREMEDIATION AND BIOFORTIFICATION: Two Sides of One Coin Yin Xuebin, Yuan Linxi, Editors Springer, ISBN: 978-94-007-1438-0, 126 pages Over the past few decades phytoremediation has been popularized as green technology that uses plants to cleanup polluted sites with heavy metals,

PHYTOREMEDIATION AND BIOFORTIFICATION - TUIASI

4 Plant-Heavy Metal Interaction: Phytoremediation, Biofortification and Nanoparticles Elena Masarovi ovÃ; and KatarÃ-na KrÃ ovÃ Comenius University in Bratislava

Plant-Heavy Metal Interaction: Phytoremediation

two technologies may also be combined: Se-enriched plant material from phytoremediation could be used as

green fertilizer or as fortified food. Plants may also be used to mine Se from seleniferous soils. The efficiency of Se phytoremediation and biofortification may be further optimized. Research in the past decades has provided a wealth ...

Selenium Biofortification and Phytoremediation

Selenium (Se) is an essential trace element for humans and animals but at high concentrations, Se becomes toxic to organisms due to Se replacing sulfur in proteins. Selenium biofortification is an agricultural process that increases the accumulation of Se in crops, through plant breeding, genetic engineering, or use of Se fertilizers. While Se phytoremediation is a green biotechnology to clean ...

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