Phytoremediation And Rhizoremediation

Volume A: 1. Introduction. 2. The chemical ecology of pollutant biodegradation: Bioremediation and phytoremediation from mechanistic and ecological perspectives. 3. Dendroremediation: The use of trees in cleaning up polluted soils. 4. Methods for rhizoremediation research: Approaches to experimental design and microbial analysis. 5. Constructed wetlands for phytoremediation: Rhizofiltration, phytostabilisation and phytoextraction. 6. Influence of helophytes on redox reactions in their rhizosphere. 7. Exploitation of fast growing trees in metal remediation. 8. Using hyperaccumulator plants to phytoextract soil Cd. 9. Enhanced heavy metal phytoextraction. 10. Enzymes transferring biomolecules to organic foreign compounds: a role for glucosyltransferase and glutathione S-transferase in phytoremediation. 11. Phytoremediation of polychlorinated biphenyls. 12. Metabolism and genetic engineering studies for herbicide phytoremediation. 13. Pesticides removal using plants: phytodegradation versus phytostimulation. 14. Phytoremediation of volatile organic compounds. 15. In vitro propagation of wetland monocots for phytoremediation. 16. Modifying a plant s response to stress by decreasing ethylene production. 17. Mycorrhizal fungi as helping agents in phytoremediation of degraded and contaminated soils. 18. Assessing risks and containing or mitigating gene flow of transgenic and non-transgenic phytoremediating plants. 19. Human exposure assessment for food one equation for all crops is not enough. EAN/ISBN : 9781402049996 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Mackova, Martina - Dowling, David - Macek, Tomas

DOWNLOAD HERE