Fungi in bioremediation

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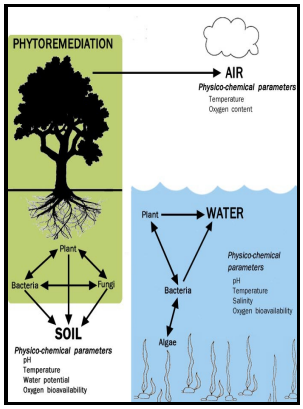

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Mycoremediation (Bioremediation with Fungi)

Depending on their concentrations, these substances can have destructive consequences on ecosystems, as well as cause severe damage to humans and other organisms nearby. Nutrients especially fertilizers added to make active and fast microbial growth. For this reason, it is often used also in small-scale applications, such as Mycofiltration of domestic wastewater , and to help with the decomposition process of a compost toilet.

Role of Fungi in Bioremediation

Nature Reviews Microbiology, 9 3 , 177-192 18. Environ Sci Technol 41: 2008-2014. Overall, the treatment apparently resulted in the degradation of 88% of the oil after 4 months, during which time there was virtually no change in the oil concentration of a control plot which was tilled in the same way.

Untapped potential: exploiting fungi in bioremediation of hazardous chemicals

Biosorption processes are very important in the environment, and has been utalized for conventional biotreatment processes. Introduction Microorganisms are widely distributed on the biospher because of their metabolic ability is very impressive and they can easely grow in a wide range of environmental conditions. Oxygen is most commonly supplied through direct air injection into residual contamination in soil by means of wells.

Role of Fungi in Bioremediation

N, P, K and other essential inorganic elements Rhodes, 2013.

Mycoremediation (Bioremediation with Fungi)

Essential genes of bacteria are carried on a single chromosome but genes specifying enzymes required for the catabolism of some of these unusual substrates may be carried on plasmids.

The Role of Microorganisms in Bioremediation

Some of the prospects of using fungi, principally white-rot fungi, for cleaning contaminated land are surveyed.

Fungi: An Effective Tool for Bioremediation

The mycelium exudes powerful extracellular enzymes and acids that are able to decompose lignin and cellulose, the two essential components of plant fibre. Bioaugmentation Bioaugmentation is the addition of non-native microorganisms that have the ability to degrade the contaminants that are recalcitrant to the indigenous microbiota.

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