

MECHANISMS, PROCESSES AND INTERACTIONS DURING PHYTOREMEDIATION

Summary

The following factors inhibit the use of plants for the recultivation of the environment contaminated with organic compounds: their bioavailability, take-up, transport, and accumulation. Moreover, a very important factor that affects effective phytoremediation process is phytotoxic influence of the uptaken chemical compounds on the plant's physi-

ological and biochemical processes. Before infiltration into a plant, detoxification system is activated, which causes the following impact in rhizosphere: liberation of xenobiotics-degrading enzymes through plant roots into rhizosphere and collaboration of microorganisms and higher plants.