

食用菌生物修复重金属污染研究进展

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Bioremediation of heavy metal pollution by edible fungi: A review.

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摘要

生物修复是利用生物体及其衍生物对重金属进行吸收/吸附来处理环境中重金属污染的方法,具有成本低、来源广、无二次污染等特点.食用菌富集重金属是生物修复的一个重要研究方向,食用菌修复作用主要通过对其吸收来降低其生态毒性,从而对重金属污染起到一定的修复作用.本文论述了食用菌对重金属Cu、Cd、Pb、Zn、As、Cr的富集作用,揭示了食用菌富集重金属的可能机理,并对采用食用菌富集重金属以治理环境污染的前景进行了展望.

关键词: 食用菌 重金属 富集

Abstract:

Bioremediation is the method of using organisms and their derivatives to absorb heavy metals from polluted environment, with the characteristics of low cost, broad sources, and no secondary pollution. Heavy metals enrichment by edible fungi is an important research focus of bioremediation, because it can decrease the ecotoxicity of heavy metals via the uptake by edible fungi, and thereby, take a definite role in heavy metal remediation. This paper reviewed the research progress on the enrichment of heavy metal copper, cadmium, lead, zinc, arsenic, and chromium by edible fungi and the possible enrichment mechanisms, and prospected the development and applications of heavy metal enrichment by edible fungi in the management of polluted environment.

Key words: **edible fungi** **heavy metal** **enrichment**

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