Abstract

Present review paper deals with extensive literature survey in exploring the potential of microbial biomass for the sequestering of toxic heavy metals from aquatic streams. Presently more than half billion people are underprivileged and deprived of fresh water, clean air, soil and pure food. Contamination of aquatic streams due to release of toxic metal ions is a stern issue demanding global concern. Toxic metals such as Cr (VI), Cd (II), Pb (II), Zn (II), Ni (II) and many more are being released in natural aquatic systems by various small and large scale industries such as tanneries, electroplating, galvanizing, pigment and dyes, metallurgical, paint, refining and metal processing etc. The utilization of various microorganisms such as yeast,
algae and fungi helps in binding and extracting heavy metal ions such as Nickel, Cadmium, Lead and Chromium from natural as well as simulated wastewaters.

References


Bai, R. S. and Abraham, T. E. 2001. ”Biosorption of Cr (VI) from aqueous solution by Rhizopus nigricans”. Bioresource Technology. 79: 73–81


**Index Terms**

Computer Science

Applied Science

**Keywords**

Biosorption Heavy Metals Microorganisms Kinetic Studies