

# RECENT STRATEGIES FOR THE REMOVAL OF HEAVY METALS VIA BIOSORPTION

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**W**ith the passage of time, the humanity is going to enter very fastly in a prosperous and industrial era. Due to the enormous increases in our population, our needs and requirements are increased day by day. To facilitate the human needs new industries are developed like leather industry, heavy industry and polymer industry etc. The industries fulfill our needs in excellence way. But industries pollute and contaminate our green system and aqueous media very brutally, which is still a question mark and demand to think very seriously about this. How the industries are an environmental threat for our eco systems? The answer is that industries cause very toxic effluents and unfortunately there is no proper method to discharge and waste these toxic effluents. A very brief discussion regarding the toxic effluents has been enlightened in this work. Beside industries, human being himself pollutes this globe by their sewage discharge but it's a natural phenomenon it does not contaminate our environment like the heavy metals or industrial effluents. This review was aimed to further discuss and evaluate the modern biosorption techniques in a realistic way to decontaminate the heavy metals through naturally abundant sorbents, and men made sorbents like coconut husk, trees bark and wheat straws etc. In this work we will also try to explain properties, occurrence and decontamination of some most common heavy metals by using different sorbent, factors effecting the biosorption, kinetics and equilibrium studies of biosorption and quantum studies of bisorption phmenomenon.

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