



- Biomass
- Heavy metal
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Microbial Biosorption Of Metals

**Pavel Kotrba, Martina Mackova, Tomas
Macek**



Microbial Biosorption Of Metals:

Microbial Biosorption of Metals Pavel Kotrba, Martina Mackova, Tomas Macek, 2011-01-13 Heavy metals always pose serious ecological risks when released into the environment due to their elemental non degradable nature regardless of their chemical form This calls for the development of efficient and low cost effluent treatment and metal recuperation technologies for contaminated waste water not only because regulatory limits need to be met but also because the waste itself can be a resource for certain precious metals Biosorption is a general property of living and dead biomass to rapidly bind and abiotically concentrate inorganic or organic compounds from even very diluted aqueous solutions As a specific term biosorption is a method that utilizes materials of biological origin biosorbents formulated from non living biomass for the removal of target substances from aqueous solutions Recent research on biosorption provides a solid understanding of the mechanism underlying microbial biosorption of heavy metals and related elements This book gathers review articles analyzing current views on the mechanism and bio chemistry of biosorption the performance of bacterial fungal and algal biomass and the practical aspects of biosorbent preparation and engineering It also reviews the physico chemical evaluations of biosorbents and modelling of the process as well as the importance of biosorption during heavy metal removal using living cells It is a reference work for scientists environmental safety engineers and R D specialists who wish to further promote biosorption research and use the accumulated knowledge to develop and build industrial applications of biosorption in heavy metal separation technologies

Microbial Biosorption of Metals Pavel Kotrba, Martina Mackova, Tomas Macek, 2011-03-30 Heavy metals always pose serious ecological risks when released into the environment due to their elemental non degradable nature regardless of their chemical form This calls for the development of efficient and low cost effluent treatment and metal recuperation technologies for contaminated waste water not only because regulatory limits need to be met but also because the waste itself can be a resource for certain precious metals Biosorption is a general property of living and dead biomass to rapidly bind and abiotically concentrate inorganic or organic compounds from even very diluted aqueous solutions As a specific term biosorption is a method that utilizes materials of biological origin biosorbents formulated from non living biomass for the removal of target substances from aqueous solutions Recent research on biosorption provides a solid understanding of the mechanism underlying microbial biosorption of heavy metals and related elements This book gathers review articles analyzing current views on the mechanism and bio chemistry of biosorption the performance of bacterial fungal and algal biomass and the practical aspects of biosorbent preparation and engineering It also reviews the physico chemical evaluations of biosorbents and modelling of the process as well as the importance of biosorption during heavy metal removal using living cells It is a reference work for scientists environmental safety engineers and R D specialists who wish to further promote biosorption research and use the accumulated knowledge to develop and build industrial applications of biosorption in heavy metal separation technologies

Biosorption of Heavy Metals Bohumil Volesky, 1990-08-15 This state of

the art volume represents the first comprehensively written book which focuses on the new field of biosorption This fascinating work conveys essential fundamental information and outlines the perspectives of biosorption It summarizes the metal sorbing properties of nonliving bacterial fungal and algal biomass plus highlights relevant metal binding mechanisms This volume also discusses the aspects of obtaining and processing microbial biomass and metal chelating chemicals into industrially applicable biosorbent products Microbiologists chemists and engineers with an interest in new technological and scientific horizons will find this reference indispensable **Sorption and Biosorption** Bohumil Volesky,2003 Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das,Hirak Ranjan Dash,2017-04-07 Around the World metal pollution is a major problem Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates *Biosorption* Jan Derco,Branislav Vrana,2018-07-18 Municipal and industrial wastewaters contain a wide spectrum of pollutants Their effective removal presents a challenge for water treatment technology Biosorption of nutrients and pollutants has been used in sewage treatment since the discovery of the activated sludge process It is a passive uptake process by which pollutants are adsorbed on the surface of cell walls and or dissolved in structures of microorganism cells that are present in sludge Sorbed pollutants remain in the sludge and can be potentially released back into the environment depending on their condition and the reversibility of the pollutant sludge interaction An overview of typical biosorption applications for the removal of nutrients organic pollutants and metals in wastewater treatment is provided in different areas of their use for the protection of aquatic ecosystems and human health This book will be of interest to operators of wastewater treatment plants and sludge treatment and disposal facilities as well as to researchers and university students in the field of environmental engineering *Women in Microbial Physiology and Metabolism: 2023* Jie Xiao,Ilana Kolodkin-Gal ,Maria Filippa Addis,2024-06-24 After the well received 2022 collection Frontiers in Microbiology is proud to host this Research Topic celebrating women s work and achievements in the field of Microbial Physiology and Metabolism Alongside International Women s Day and Women s History Month 2023 we will collectively embrace equity in the microbiology community There is continued gender disparity within core STEM subjects According to UNESCO Institute for Statistics just 33% of the world s researchers are women While the number of women attending university is growing they still represent the minority of doctoral students and researchers Women remain under represented in the highest level of academia holding just 26% of full professorships This is even more skewed in industry with just 3% of STEM industry CEOs being women As highlighted by UNESCO science and gender equality are essential to ensure sustainable development Reviews of Environmental Contamination and Toxicology Volume 217 David M. Whitacre,2012-02-21 Reviews of Environmental

Contamination and Toxicology attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications Reviews of Environmental Contamination and Toxicology David M. Whitacre, 2012-05-19

Reviews of Environmental Contamination and Toxicology attempts to provide concise critical reviews of timely advances philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications **Biosorption Processes for Heavy Metal Removal** Saini, Pinki, 2024-03-11 Persistent and non degradable heavy metals stand as pollutants with the potential for severe ecological repercussions when released into the environment Municipal and industrial wastewater face a high risk of contamination by these hazardous substances posing a formidable challenge to water treatment technologies The imperative is clear effective and affordable methods for effluent treatment and metal recovery are essential for meeting regulatory standards and unlocking the latent value of valuable metals within the waste However new methods of accomplishing this challenge are necessary for increasing the effectiveness in both cost and application **Biosorption Processes for Heavy Metal Removal** comprehensively explores the imperative to remove heavy metals from waste streams It provides an insightful overview of biosorbents and biosorption technology focusing on their underlying biosorption features The compilation within this book comprises of a series of review articles delving into the current understanding of biosorption mechanisms and biochemistry the efficacy of bacterial fungal and algal biomass and practical considerations for biosorbent preparation and engineering The physicochemical evaluations of biosorbents process optimization and factors influencing biosorption efficiency are also covered Furthermore the book explores biosorption applications for removing nutrients organic pollutants and metals in wastewater treatment across diverse contexts Geared towards administrators policymakers consultants industry professionals academicians scientists researchers and graduate and post graduate students in environmental sciences and related fields this book serves as their comprehensive reference **Heavy Metals In The Environment** International Conference on Heavy Metals in the Environment, 1991 **Microbial Biotechnology for Sustainable Development and Productivity** R. C. Rajak, 2000 The Book Has Been Brought Out On The Occasion Of Superannuation Of Prof Suresh K Hasija An Eminent Mycologist Of The Country The Main Objective In Compilation Of This Volume Is To Highlight The Developments And Achievements Of Biotechnology Of Microbe *Heavy Metals in the Environment* Edgardo R. Donati, 2018-01-03 This book serves as a knowledge bank for researchers and graduate students in microbiology chemistry and environmental sciences among others It focuses on heavy metal in the environment and describes methodologies to immobilize and mobilize heavy metals It also provides case studies which may be of particular interest to persons in industry Biosorption of heavy metals by free and immobilized cells of Pseudomonas aeruginosa and Bacillus subtilis isolated from garden soils Prem Jose Vazhacharickal, John Joseph, Soniya Mathew, 2018-04-27 Human populations need methods and technologies to clean waters

and diminish the environmental dangers related to technological progress Biosorption can be one such solution to clean up metal contamination In the present study *P aeruginosa* and *B subtilis* was isolated from rhizosphere soil by serial dilution and plate count technique Both free and immobilized form of isolates were tested for the biosorption of chromium Cr molybdenum Mo iron Fe and copper Cu Both the strains were able to remove metal from solutions Free cells of *B subtilis* and *P aeruginosa* showed maximum iron removal 86.6% and 92.2% respectively Free cells of *B subtilis* is better in chromium removal 92% that *P aeruginosa* and *B subtilis* was equally effective in the removal of copper 98.1% Maximum microorganism removal was observed with immobilized cells of *B subtilis* 87.5% agitation increases the rate of biosorption when compared to static condition The experiments were also conducted at 37 °C and showed slight increase in the rate of biosorption Microbial metal bioremediation is an efficient strategy due to its low cost high efficiency and eco friendly nature This work summarize the potential of microbes in metals remediation

Microbial Diversity S. P. Gautam, Anjana Sharma, Sardul Singh Sandhu, 2005 Ramcharan Rajak b 1942 Indian mycologist papers presented at the International Symposium on Microbial Diversity Challenges Opportunities and Relevance in the New Millennium held at Jabalpur during 19-21 November 2004

Special Microbial Processes H.J. REHN (ed), Gerald Reed, 1988 Microbial production of butanol acetone Microbial production of 2,3-butanediol Microbial production of glycerol and other polyols Microbial production of hydrocarbons Microbial production of hydrogen Microbial production of poly-beta-hydroxybutyric acid Microbial and enzymatic production of labeled compounds Photosynthesis in biotechnology biomimetic models Processes with plant cell cultures Processes with animal cell and tissue cultures Biosensors and bioelectronics Leaching of metals Accumulation of metals by microorganism and algae Microbial elimination of nitrogen and phosphorus Sulfur in biotechnology Coal in biotechnology Aerosols and transportation of microorganisms in air Membrane biotechnology two dimensional protein crystals for ultrafiltration purposes Biotechnology in space Gliding bacteria in biotechnology Archaeobacteria Microorganisms in processing of leather Microorganisms in processing of flax Microorganisms in processing of tobacco Biotechnology in agriculture an overview

Biosorbents for Metal Ions D A John Wase, John Wase, 1997-08-05 Metals can be dispersed both naturally and by man's activities into any of the Earth's elements soil water or air Biological techniques for removing metal pollutants from soil air or water are now attracting great interest both because they are seen as more environmentally friendly than chemical treatments and because in some cases at least

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