



Metals And Microorganisms

Dietrich H. Nies, Simon Silver



Metals And Microorganisms:

Microbial Metabolism of Metals and Metalloids Christon J. Hurst, 2022-04-24 This book explains the metabolic processes by which microbes obtain and control the intracellular availability of their required metal and metalloid ions The book also describes how intracellular concentrations of unwanted metal and metalloid ions successfully are limited Its authors additionally provide information about the ways that microbes derive metabolic energy by changing the charge states of metal and metalloid ions Part one of this book provides an introduction to microbes metals and metalloids It also helps our readers to understand the chemical constraints for transition metal cation allocation Part two explains the basic processes which microbes use for metal transport That section also explains the uses as well as the challenges associated with metal based antimicrobials Part three gives our readers an understanding that because of microbial capabilities to process metals and metalloids the microbes have become our best tools for accomplishing many jobs Their applications in chemical technology include the design of microbial consortia for use in bioleaching processes that recover metal and metalloid ions from industrial wastes Many biological engineering tasks including the synthesis of metal nanoparticles and similar metalloid structures also are ideally suited for the microbes Part four describes unique attributes associated with the microbiology of these elements progressing through the alphabet from antimony and arsenic to zinc

Metals and Microorganisms M.N. Hughes, R.K. Poole, 1989-09-30 This book integrates microbiology and chemistry and looks at the effects of metals on microorganisms and in turn the effects of microorganisms on metals and their compounds The accelerating impact of molecular biology will be felt particularly in the elucidation of the structure of proteins that bind transport or have their function modulated by metals

Metals, Microbes, and Minerals - The Biogeochemical Side of Life Peter Kroneck, Martha Sosa Torres, 2021-01-18 One of the biggest questions in today's biochemistry is how biological molecules became essential for the processes that occur within living cells This new book from outstanding Metal Ions in Life Science series gives an overview about biochemical evolution of organic molecules and metabolic pathways in living systems and outlines the vital biochemical processes in microbial cells in which metals are involved

[Metal-microbe Interactions](#) Robert K. Poole, Geoffrey M. Gadd, 1989 This new title provides information on the relationships of such biological materials as yeasts fungi and plasmids with metals they come in contact with Readers will find in depth discussions by noted experts in their respective fields on the toxicity of heavy metals accumulation and precipitation of sulphides and the reactions of bacterial cell walls to the presence of metal ions This volume is ideal for undergraduates and graduates as well as researchers unfamiliar with metal microbe interactions who are seeking a useful introduction to the field

Metal Ions and Bacteria Terrance J. Beveridge, Ronald J. Doyle, 1989 A comprehensive treatment of the interactions of metals with bacteria a subject of interest in medicine toxicology extraction of metals mineral cycling and microbiology is provided in this book It outlines the diversity of these interactions their importance to bacteria and humans and the global scale of the reaction products

Topics include the use of microbes to immobilize toxic heavy metals natural biological metal chelators metalloenzymes heavy metal resistance mechanisms biomineralization the influence of metals on bacterial virulence and the impact of the biosphere of mineral production and cycling The text will be of benefit to academic and industrial microbiologists researchers in mining and metal industries environmentalists geologists toxicologists and biogeochemists **Transition Metals in Microbial**

Metabolism Gunther Winkelmann, 1997-12-23 Comprises 17 papers exploring the role of transition metals in a variety of metabolic processes from simple interactions where the protein matrix does little more than bind an inorganic ion to systems in which the binding site of the protein modifies the metals properties considerably to the very complex multimetallic systems which may function as part of a supramolecular assembly Intended as a reference for students and industry professionals especially those working in biotechnology Annotation copyrighted by Book News Inc Portland OR **Microbiology for**

Minerals, Metals, Materials and the Environment Abhilash, B. D. Pandey, K. A. Natarajan, 2015-02-25 This book disseminates the interdisciplinary relationship some explored and some yet to be among microbiology and the inorganic world It studies the genesis of microbiology in the metal world the various physiological aspects behind their existence in such a turgid environment their applications in the mineral sector metal extraction and material synthesis A major part of this book emphasizes the importance of microbes in environmental remediation in the mining industries from core deep ground sample processing to utilization of discarded raw materials and synthesizing products *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 **Molecular Microbiology of Heavy Metals** Dietrich H. Nies, Simon Silver, 2007-03-24 All

forms of life depend on a variety of heavy metal ions Nearly one third of all gene products require a metal ion for proper folding or function However even metals generally regarded as non poisonous are toxic at higher concentrations including the essential ones Thus sensitive regulation of metal uptake storage allocation and detoxification is needed to maintain cellular homeostasis of heavy metal ions Molecular Microbiology of Heavy Metals includes chapters on allocation of metals in cells metal transporter storage and metalloregulatory proteins cellular responses to metal ion stress transcription of genes involved in metal ion homeostasis uptake of essential metals metal efflux and other detoxification mechanisms Also discussed are metal bioreporters for the nanomolar range of concentration and tools to address the metallome Chapters in the second part cover specific metals such as Fe Mn Cu Ni Co Zn and Mo as key nutrient elements and Ag As Cd Hg and Cr as toxic elements *Metals, Microbes, and Minerals - The Biogeochemical Side of Life* Peter Kroneck, Martha Sosa

Torres, 2021-01-18 One of the biggest questions in today's biochemistry is how biological molecules became essential for the processes that occur within living cells This new book from outstanding Metal Ions in Life Science series gives an overview

about biochemical evolution of organic molecules and metabolic pathways in living systems and outlines the vital biochemical processes in microbial cells in which metals are involved

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

Handbook of Water and Wastewater Microbiology Duncan Mara, Nigel J. Horan, 2003-08-07 Access to safe water is a fundamental human need and therefore a basic human right Kofi Annan United Nations Secretary General Edited by two world renowned scientists in the field The Handbook of Water and Wastewater Microbiology provides a definitive and comprehensive coverage of water and wastewater microbiology With contributions from experts from around the world this book gives a global perspective on the important issues faced in the provision of safe drinking water the problems of dealing with aquatic pollution and the processes involved in wastewater management Starting with an introductory chapter of basic microbiological principles The Handbook of Water and Wastewater Microbiology develops these principles further ensuring that this is the essential text for process engineers with little microbiological experience and specialist microbiologists alike Comprehensive selection of reviews dealing with drinking water and aquatic pollution Provides an understading of basic microbiology and how it is applied to engineering process solutions Suitable for all levels of knowledge in microbiology from those with no background to specialists who require the depth of information

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 contaminants **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 contaminants **Bacteria-Metal**

Interactions Daad Saffarini,2016-10-09 This book provides a detailed description and analysis of the reduction and metabolism of metals and metalloids by sulfate reducing bacteria The molecular mechanisms of bacterial resistance to copper are examined as well as extracellular electron transfer and bacterial metal oxide respiration Furthermore in this book enrichment isolation and physiology of magnetotactic bacteria are discussed The interactions of bacteria with metals in natural environments and their role in metal cycling have been studied for decades Advances in studies of bacteria metal interactions identified numerous important aspects of these interactions such as bioremediation of metal contaminated environments the role of metals in redox reactions and other cellular functions as well as the role of metals in toxicity and infection Microbiologists environmental scientists and students interested in microbe interactions with metals and their effect on the environment and their application in biotechnology will be interested in the topics discussed in the book

Microbial Metal Respiration Johannes Gescher,Andreas Kappler,2012-11-09 Microbes can respire on metals This seemingly simple finding is one of the major discoveries that were made in the field of microbiology in the last few decades The importance of this observation is evident Metals are highly abundant on our planet Iron is even the most abundant element on Earth and the forth most abundant element in the Earth s crust Hence in some environments iron but also other metals or metalloids are the dominant respiratory electron acceptors Their reduction massively drives the carbon cycle in these environments and establishes redox cycles of the metallic electron acceptors themselves These redox cycles are not only a driving force for other biotic reactions but are furthermore necessary for initiating a number of geochemically relevant abiotic redox conversions Although widespread and ecologically influential electron transfer onto metals like ferric iron or manganese is biochemically challenging The challenge is to transfer respiratory electrons onto metals that occur in nature at neutral pH in the form of metal oxides or oxihydroxides that are effectively insoluble Obviously it is necessary that the microbes specially adapt in order to catalyze the electron transfer onto insoluble electron acceptors The elucidation of these adaptations is an exciting ongoing process To sum it up dissimilatory metal reduction has wide spread implications in the field of microbiology biochemistry and geochemistry and its discovery was one of the major reasons to establish a novel scientific field called geomicrobiology Recently the discovery of potential applications of dissimilatory metal reducers in

bioremediation or current production in a microbial fuel cell further increased the interest in studying microbial metal reduction

Metal Ions in Biological Systems Astrid Sigel, Helmut Sigel, 1998-01-09 Volume 35 covers the biological cycling of iron in oceans the transport of iron in microorganisms fungi and plants the roles and properties of siderophores the regulation of iron transport and uptake in animals plants and microorganisms and more

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

Environmental Microbe-metal Interactions Derek R. Lovley, 2000 Annotation This specialist researchlevel monograph presents an overview of environmentally significant microbemetall interactions covering both enzymatic and nonenzymatic reactions

Toxicity of Heavy Metals to Legumes and Bioremediation Almas Zaidi, Parvaze Ahmad Wani, Mohammad Saghir Khan, 2012-03-21 This title discusses various effects of heavy metal exposure to legumes as well as the bioremediation potential of rhizosphere microbes Availability of heavy metals their uptake and the effects of metals on various signaling pathways within legumes are presented Furthermore the effects of heavy metals to nitrogen fixing microorganisms and how microsymbionts can overcome metal stress is presented in detail The role of nitrogen fixers in decontamination of heavy metal toxicity mycoremediation of metal contaminated soils microbially mediated transformation of heavy metals and action of plant growth promoting rhizobacteria and nitrogen fixers together in detoxifying heavy metals are broadly explained This volume is a useful tool for scientists policy makers and progressive legume growers intending to develop safe and healthy legumes for future generations

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