

Larry L. Barton · Dennis A. Bazylinski  
Huifang Xu *Editors*

# Nanomicrobiology

Physiological and Environmental  
Characteristics

 Springer

# Nanomicrobiology Physiological And Environmental Characteristics

**Aydin Berenjian, Mostafa Seifan**



## **Nanobiotechnology Physiological And Environmental Characteristics:**

**Nanobiotechnology** Larry L. Barton, Dennis A. Bazylinski, Huifang Xu, 2014-11-05 This book is devoted to nanobiotechnology and the nanosystems of bacteria The initial chapter discusses some of the controversies in the geochemical and biomedical fields associated with the reports of nanobacteria in the environment Current knowledge of several internal and surface structures of bacteria is addressed in this book Included are chapters discussing carboxysomes S layers gliding motility of bacteria and aggregation of iron to produce nano magnetite Information about the activities of outer membrane vesicles produced by Gram negative bacteria is discussed as a benefit to bacteria that produce it and some potential industrial applications are presented A broad review of bacterial mineral interactions is addressed in a chapter of metallic nanoparticles and colloids production by bacterial reduction of soluble redox active elements The structures of bacterial nanowires are discussed and their application in extra cellular electron transport is reviewed Nanomotor activities of bacteria are discussed as pertains to the mechanics of flagellar rotation production of energy by ATP synthase DNA packing and translocation of proteins across membranes by secretion systems The rapidly evolving field of nanosystem technology is embracing many areas and it is the hope that this book will stimulate the use of bacterial nanostructures for future developments in nanotechnology

Mineral Formation by Microorganisms Aydin Berenjian, Mostafa Seifan, 2022-05-07 This book explains how microorganisms play a pivotal role in the formation of biominerals including carbonates silicate minerals and oxides As readers will learn these minerals may be produced either intracellularly or extracellularly in order to sustain microbial life Experienced scientists from the field show that some of these biominerals can be produced in an active form which involves direct enzymatic intervention to form precipitates In addition passive mineral formation can be mediated by the presence of dead cells Readers from Microbiology and Biochemistry will appreciate the thorough coverage on various types of microbial mineral formation and their roles in microbial domains Furthermore they will benefit from the authors first hand knowledge regarding common techniques for studying biomineral producing microorganisms factors affecting biomineralization and the use of this process in biotechnological applications

**Microbial Photosynthesis** Qiang Wang, 2020-05-07 As the largest scale chemical reaction photosynthesis supplies all of the organic carbon and oxygen for life on Earth It is estimated that the photosynthetic activity of microorganisms is responsible for more than 50% of the primary production of molecular oxygen on Earth This book highlights recent breakthroughs in the multidisciplinary areas of microbial photosynthesis presenting the latest developments in various areas of microbial photosynthesis research from bacteria to eukaryotic algae and from theoretical biology to structural biology and biophysics Furthermore the book discusses advances in photosynthetic chassis such as in the context of metabolic engineering and green chemical production Featuring contributions by leading authorities in photosynthesis research the book is a valuable resource for graduate students and researchers in the field especially those studying biological evolution and the origin of life

Bioremediation of

Selenium Contaminated Wastewater Eric D van Hullebusch, 2017-09-02 This book features the reduction and removal of selenium in wastewater via bioremediation Arranged over five chapters this book provides information regarding the interaction between micro organisms and selenium and it also explains the biogeochemistry of selenium in engineered ecosystems designed for wastewater treatment The analytical approaches currently adopted by the scientific community are also described and discussed Readers will find examples of the biological treatment of selenium contaminated wastewater and discover a concise overview of selenium removal processes that are currently implemented at lab scale as well as at industrial scale

**Nano-microbiology for Sustainable Development** Yugal Kishore Mohanta, Bishwambhar Mishra, Ramesh Namdeo Pudake, 2025-02-25 Microbial diversity and microbial technology are critical to achieving most of the UN Sustainable Development Goals SDGs mainly due to their central role in the provision and regulation of ecosystem services Despite this intensification of effort more than 90% of microbial diversity remains to be discovered Thus the most unique characteristic of microbial technology is the exceptional diversity of applications it can address and the range of human activities and needs to which it is and can be applied Separately nanotechnology and microbiology have produced innovative solutions for human well being and ecological and environmental equilibrium The development of interdisciplinary research practices combining nanotechnology and microbiology to deliver creative solutions for human health and environmental and ecological damage is urgently required The nanotechnology of microorganisms is contributing to the development and innovation of numerous industries This book will explain the fundamentals and methods of the biological production of nanoparticles from microorganisms such as bacteria fungi and algae It will describe optimization strategies for microbe mediated nanoparticle production The book will also discuss the industrial and agricultural applications of nanoparticles produced by microbes It also describes the applications of green nanoparticles in the health and pharmaceutical sectors such as the treatment of multidrug resistant infections and cancer Overall the book focuses on the broad subject areas of microbial nanotechnology and its possible applications in food pharmaceuticals water environmental remediation etc However the lack of information and the potential for negative effects on the environment human health safety and sustainability remain obstacles This book addresses these issues Researchers and students in the agricultural sciences materials sciences biotechnology microbiology and pharmaceutical sectors will find this an invaluable resource

**Bacteria-Metal Interactions** Daad Saffarini, 2015-05-20 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 **School of Bio and Chemical Engineering : Microbiology and Pathology** Mr. Rohit Manglik,2024-04-03

EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Physiological Models in Microbiology M. Bazin,2017-11-29 Physiological Models in Microbiology consists of two volumes Volume I considers models of basic growth processes and the effects of environmental factors on microbial growth Volume II describes models of secondary processes in particular microbial death spore germination chemotaxis and surface growth

## Unveiling the Magic of Words: A Review of "**Nanobiotechnology Physiological And Environmental Characteristics**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Nanobiotechnology Physiological And Environmental Characteristics**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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