T. Satyanarayana
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Microorganisms in Environmental Management

Microbes and Environment

Springer

Microorganisms In Environmental Management Microbes And Environment

Kartika Sharma

Microorganisms In Environmental Management Microbes And Environment:

Microorganisms in Environmental Management Tulasi Satyanarayana,Bhavdish Narain Johri,Anil Prakash,2012-01-03 Microbes and their biosynthetic capabilities have been invaluable in finding solutions for several intractable problems mankind has encountered in maintaining the quality of the environment They have for example been used to positive effect in human and animal health genetic engineering environmental protection and municipal and industrial waste treatment Microorganisms have enabled feasible and cost effective responses which would have been impossible via straightforward chemical or physical engineering methods Microbial technologies have of late been applied to a range of environmental problems with considerable success This survey of recent scientific progress in usefully applying microbes to both environmental management and biotechnology is informed by acknowledgement of the polluting effects on the world around us of soil erosion the unwanted migration of sediments chemical fertilizers and pesticides and the improper treatment of human and animal wastes These harmful phenomena have resulted in serious environmental and social problems around the world problems which require us to look for solutions elsewhere than in established physical and chemical technologies Often the answer lies in hybrid applications in which microbial methods are combined with physical and chemical ones When we remember that these highly effective microorganisms cultured for a variety of applications are but a tiny fraction of those to be found in the world around us we realize the vastness of the untapped and beneficial potential of microorganisms At present comprehending the diversity of hitherto uncultured microbes involves the application of metagenomics with several novel microbial species having been discovered using culture independent approaches Edited by recognized leaders in the field this penetrating assessment of our progress to date in deploying microorganisms to the advantage of environmental management and biotechnology will be widely welcomed **Microorganisms in Environmental Management** ,2013-02-22 Developments in Microbial Bioremediation Pratima Bajpai,2025-01-21 This book sheds new light on the transformative role of microorganisms in waste management offering a comprehensive overview of microbial waste management strategies and their applications Through this book readers will learn about the latest advancements in bioremediation and microbial consortia technology providing a fresh perspective on sustainable waste treatment solutions The chapters cover topics such as the types and origins of waste the importance of microorganisms in various waste management processes and the benefits of bioremediation compared to traditional methods Readers will discover diverse strategies for managing microbial waste including bioleaching bioaugmentation and utilizing microorganisms to aid phytoremediation The book also discusses the combined use of bacteria and microalgae for wastewater treatment and emerging innovations in microbial consortia technology Critical attention is given to the role of microbes in multiple industrial applications such as pharmaceuticals food processing textiles explosives distilleries and petrochemicals Additionally it explores bioinformatics approaches like genomics and proteomics that drive bioremediation efforts This

volume is an essential resource for researchers in environmental science biotechnology professionals focusing on sustainable practices scholars studying advanced wastewater treatment methods using nanotechnology or plant species integration with microorganisms It invites readers to think through critical questions about sustainable waste treatment practices while offering valuable insights into future perspectives on microbial waste management **Microorganisms for Sustainable Environment and Health** Pankaj Chowdhary,Abhay Raj,Digvijay Verma,Yusuf Akhter,2020-07-21 Microorganisms for Sustainable Environment and Health covers hazardous pollutants released from natural as well as anthropogenic activities and implications on environmental and human health This book serves as a valuable source of basic knowledge and recent developments in the clean technologies and pollution associated diseases and abnormalities in the context of microorganisms Focused on current solutions to various environmental problems in the field of bioremediation it provides a detailed knowledge on the various types of toxic environmental pollutants discharged from different sources their toxicological effects in environments humans animals and plants as well as their biodegradation and bioremediation approaches This book helps environmental scientists and microbiologists learn about existing environmental problems and suggests ways to control or contain their effects by employing various treatment approaches Provides information on waste treatment approaches using microbes Includes applications in biofuel and bioenergy production Covers green belt development hydroponics phytoremediation wetland treatment technology and common effluent treatment plants CETPs Discusses dissemination of antibiotic resistance among pathogenic microbes and strategies to combat multi drug resistance MDR Handbook of Research on Microbial Tools for Environmental Waste Management Pathak, Vinay Mohan,Navneet,2018-04-27 The remediation of environmental pollutants has become a relevant topic within the field of waste management Advances in biological approaches are a potential tool for contamination and pollution control The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes Featuring coverage on a broad range of topics such as biodegradation microbial dehalogenation and pollution controlling treatments this book is geared towards environmental scientists biologists policy makers graduate students and scholars seeking current research on environmental engineering and green technologies **The Role of Microbes and Microbiomes in Ecosystem Restoration** Shiv Prasad, Govindaraj Kamalam Dinesh, Murugaiyan Sinduja, Velusamy Sathya, Ramesh Poornima, Sangilidurai Karthika,2024-12-24 The Role of Microbes and Microbiomes in Ecosystem Restoration provides an in depth exploration of how microbes and microbiomes can drive sustainable environmental recovery It covers key topics from microbial roles in pollution remediation biofertilizer production and waste management to advanced microbial techniques for ecosystem resilience Key chapters discuss microbial assisted bioremediation agriculture support through biofertilizers waste treatment systems and the restoration of polluted soils With a special focus on the latest advances including microbial genomics and metagenomics the book highlights

practical applications for mitigating climate impacts and promoting a greener future Key Features Explains microbial and microbiome roles in restoring ecosystems Covers practical applications for agriculture waste management and pollution control Introduces advanced microbial techniques in environmental management Provides insights into sustainable practices for reducing greenhouse gases and improving soil health **Beneficial Microbes for Sustainable Agriculture and Environmental Management** Jeyabalan Sangeetha,Devarajan Thangadurai,Saher Islam,2020-03-27 Microbes are the most abundant organisms in the biosphere and regulate many critical elemental and biogeochemical phenomena Because microbes are the key players in the carbon cycle and in related biological reactions microbial ecology is a vital research area for understanding the contribution of the biosphere in global warming and the response of the natural environment to climate variations The beneficial uses of microbes have enabled constructive and cost effective responses that have not been possible through physical or chemical methods This new volume reviews the multifaceted interactions among microbes ecosystems and their pivotal role in maintaining a more balanced environment in order to help facilitate living organisms coexisting with the natural environment With extensive references tables and illustrations this book provides valuable information on microbial utilization for environmental sustainability and provides fascinating insights into microbial diversity Key features include Looks at enhancing plant production through growth promoting arbuscular mycorrhizae endophytic bacteria and microbiome networks Considers microbial degradation and environmental management of e wastes and azo dyes Explores soil plant microbe interactions in metal contaminated soils Examines radiation resistant thermophiles for engineered bioremediation Describes potential indigenous effective microbes for wastewater treatment processes Presents research on earthworms and microbes for organic farming **Environmental Microbiology and Microbial Ecology** Larry L. Barton,Robert J. C. McLean,2019-01-09 An authoritative overview of the ecological activities of microbes in the biosphere Environmental Microbiology and Microbial Ecology presents a broad overview of microbial activity and microbes interactions with their environments and communities Adopting an integrative approach this text covers both conventional ecological issues as well as cross disciplinary investigations that combine facets of microbiology ecology environmental science and engineering molecular biology and biochemistry Focusing primarily on single cell forms of prokaryotes and cellular forms of algae fungi and protozoans this book enables readers to gain insight into the fundamental methodologies for the characterization of microorganisms in the biosphere The authors draw from decades of experience to examine the environmental processes mediated by microorganisms and explore the interactions between microorganisms and higher life forms Highly relevant to modern readers this book examines topics including the ecology of microorganisms in engineered environments microbial phylogeny and interactions microbial processes in relation to environmental pollution and many more Now in its second edition this book features updated references and major revisions to chapters on assessing microbial communities community relationships and their global impact New content such as effective public communication of

research findings and advice on scientific article review equips readers with practical real world skills Explores the activities of microorganisms in specific environments with case studies and actual research data Highlights how prominent microbial biologists address significant microbial ecology issues Offers guidance on scientific communication including scientific presentations and grant preparation Includes plentiful illustrations and examples of microbial interactions community structures and human bacterial connections Provides chapter summaries review questions selected reading lists a complete glossary and critical thinking exercises Environmental Microbiology and Microbial Ecology is an ideal textbook for graduate and advanced undergraduate courses in biology microbiology ecology and environmental science while also serving as a current and informative reference for microbiologists cell and molecular biologists ecologists and environmental professionals Bio-prospecting of Novel Microbial Bioactive Compounds for Sustainable Development Kartika Sharma,2025-04-26 This book discusses current developments and upcoming trends in the microbial synthesis of various bioactive compounds from waste product which have a very good market worldwide The extraction of biologically active compounds from microorganisms is still essential for the creation of novel pharmaceuticals and agricultural chemicals and has underpinned their application as drugs and functional food ingredients The demand of pharmaceuticals nutraceuticals and agrochemicals is rising globally for the multi billion dollar market of human disease prevention and treatment However the limitations and issues associated with the extraction of these bioactive compounds from natural resources such as plants animals or fungi limit the large scale use of pharmaceuticals nutraceuticals and agrochemicals The microbial production of agrochemicals nutraceuticals and pharmaceuticals by utilizing by utilizing waste product is now thought to be an environmentally benign process The major goal of this book is to draw attention to excellent original research and review articles that contain cutting edge characterization techniques and novel bioactive chemicals production that make important contributions to the field with many prospective applications In this book the potential for using microbial bioactive compounds which have positive health effects in their entirety is highlighted This book is written by eminent scientists from around the world and seasoned researchers thoroughly discusses current developments and patterns in the microbial synthesis of bioactive compounds Academicians scientists researchers graduate and post graduate students who work in the highly dynamic and competitive fields of pharmaceuticals nutraceuticals and agrochemicals discovery will find this book to be ideal **Microbial Metabolomics** Sukhminderjit Kaur,Sunny Dhiman,Manikant Tripathi,2025-06-09 This book explores the potential of microbial metabolism in health agriculture and environmental technologies serving as a comprehensive guide to microbial metabolomics with practical applications It uncovers the complex biochemical processes of microbes from bacteria to fungi revealing their impact on biotechnology environmental sciences healthcare and agriculture Microbes the unseen drivers of biological processes offer innovative solutions across these fields The book examines the rapid advancements in microbial metabolomics and addresses challenges like data integration and metabolite identification

providing insights to unlock its full potential It caters to the growing demand for advanced resources in microbiology and biotechnology making it valuable for researchers students and professionals in microbiology biotechnology and biochemistry as well as innovators in food security and green technology Microbial Biotechnology in Environmental Monitoring and Cleanup Pankaj,,Sharma, Anita,2018-01-30 Pollutants are increasing day by day in the environment due to human interference Thus it has become necessary to find solutions to clean up these hazardous pollutants to improve human animal and plant health Microbial Biotechnology in Environmental Monitoring and Cleanup is a critical scholarly resource that examines the toxic hazardous substances and their impact on the environment Featuring coverage on a broad range of topics such as pollution of microorganisms phytoremediation and bioremediation this book is geared towards academics professionals graduate students and practitioners interested in emerging techniques for environmental decontamination

Their World: A Diversity of Microbial Environments Christon J. Hurst,2016-05-02 This volume summarizes recent advances in environmental microbiology by providing fascinating insights into the diversity of microbial life that exists on our planet The first two chapters present theoretical perspectives that help to consolidate our understanding of evolution as an adaptive process by which the niche and habitat of each species develop in a manner that interconnects individual components of an ecosystem This results in communities that function by simultaneously coordinating their metabolic and physiologic actions The third contribution addresses the fossil record of microorganisms and the subsequent chapters then introduce the microbial life that currently exists in various terrestrial and aquatic ecosystems Coverage of the geosphere addresses endolithic organisms life in caves and the deep continental biosphere including how subsurface microbial life may impact spent nuclear fuel repositories The discussion of the hydrosphere includes hypersaline environments and arctic food chains By better understanding examples from the micro biosphere we can elucidate the many ways in which the niches of different species both large and small interconnect within the overlapping habitats of this world which is governed by its microorganisms **Microbes and Environmental Management** D. P. Singh (Environmental science scholar),2017

Environmental Microbiology and Biotechnology Anoop Singh,Shaili Srivastava,Dheeraj Rathore,Deepak Pant,2020-09-23 This book provides up to date information on the state of the art in applications of biotechnological and microbiological tools for protecting the environment Written by leading international experts it discusses potential applications of biotechnological and microbiological techniques in solid waste management wastewater treatment agriculture energy and environmental health This first volume of the book Environmental Microbiology and Biotechnology covers three main topics Solid waste management Agriculture utilization and Water treatment technology exploring the latest developments from around the globe regarding applications of biotechnology and microbiology for converting wastes into valuable products and at the same time reducing the environmental pollution resulting from disposal Wherever possible it also includes real world examples Further it offers advice on which procedures should be followed to achieve satisfactory

results and provides insights that will promote the transition to the sustainable utilization of various waste products

Microbes for Sustainable Development and Bioremediation Ram Chandra,RC Sobti,2019-12-13 Microbes are the predominant form of life on the planet due to their broad range of adaptation and versatile nutritional behavior The ability of some microbes to inhabit hostile environment incompatible with most forms of life means that their habitat defines the extent of the biosphere and delineates the barrier between the biosphere and geosphere The direct and indirect role of microbes that include bacteria fungi actinomycetes viruses mycoplasma and protozoans are very much important in development of modern human society for food drugs textiles agriculture and environment Furthermore microorganisms and their enzyme system are responsible for the degradation of various organic matters Microbes for Sustainable Development and Bioremediation emphasizes the role of microbes for sustainable development of ecosystem Environmental microbiology role in biogeochemical cycle and bioremediation of environmental waste is major theme which comprises the following aspects Bacterial phytoextraction mechanism of heavy metals by native hyperaccumulator plants from complex waste contaminated site for eco restoration Role of microbial enzyme for eco friendly recycling of industrial waste Field scale remediation of crude oil contaminated desert soil and treatment technology Microbial technology for metal recovery from e waste printed circuit board Impact of genomic data on sustainability of ecosystem Methane monooxygenases their regulations and applications Role of microbes in environmental sustainability and food preservation This book will be directly beneficial to researchers and classroom students in areas of biotechnology environmental microbiology molecular biology and environmental engineering with specialized collection of cutting edge knowledge **Microbial Electrochemical Systems for Industrial Wastewater Treatment and Research** Maulin P. Shah,2025-10-24 Microbial Electrochemical Systems highlights major challenges in large scale operation and presents the future scope of these techniques to make treatment processes more sustainable as new hybrid technologies combining algae bacteria and chemical agents are being developed for sustainable wastewater treatment processes This book delves into the latest advancements in Microbial Electrochemical Systems emphasizing the major obstacles faced during large scale operations and outlining the future potential of these techniques to enhance sustainability in treatment processes As urbanization and intensive agriculture increase the variety and concentration of contaminants in wastewater continue to grow The book addresses these evolving challenges with innovative solutions Moreover the book emphasizes the limitations of conventional wastewater treatment methods which often require longer processing times and higher energy input By exploring the potential of Microbial Electrochemical Systems MES the book offers insights into a more sustainable approach to wastewater treatment It also highlights the global significance of adopting these advanced technologies to cope with the rising levels of pollutants due to modern detergents soaps chemical fertilizers and pesticides The comprehensive examination of MES in this book provides a clear understanding of how these systems can revolutionize wastewater management Discusses the fundamentals of biological wastewater

treatment and bio electrochemical systems Compares advantages limitations and promising solutions of different types of energy recovery options from wastewater Summarizes recent trends and developments in Microbial Electrochemical Systems for achieving sustainable wastewater treatment Includes carbon capture and resource recovery other than energy from wastewater using Microbial Electrochemical Systems *A Textbook of Environmental Microbiology* ,2024-05-31 Environmental Microbiology is a comprehensive and authoritative reference that investigates the complex connections between microbes and their surroundings This book is an invaluable resource for students researchers educators and professionals interested in understanding the critical function of microbes in sculpting the Earth s ecosystems and impacting environmental processes The book covers a wide range of subjects in environmental microbiology including key concepts methodology and applications in microbial ecology biogeochemistry and environmental science Each chapter provides detailed insights into the complex interactions between microorganisms and their surroundings ranging from microbial community dynamics and biodiversity to biogeochemical cycles and ecosystem functioning Environmental Microbiology was written by renowned specialists in the area and combines the most recent research discoveries theoretical frameworks and practical applications in microbial ecology and environmental science The book brings together interdisciplinary viewpoints from microbiology ecology biogeochemistry and environmental engineering providing a comprehensive understanding of microbial activities and their consequences for environmental sustainability With its interdisciplinary approach and authoritative material Environmental Microbiology is a crucial resource for iv academics researchers and professionals looking to get a better knowledge of the intricate interactions between microbes and the environment This comprehensive reference book contains unique insights and practical information for readers who are studying microbial ecology doing environmental research or adopting environmental management techniques **Soil Microbial Ecology Applications in Agricultural and Environmental Management** F. Blaine Metting,1992-10-16 Provides discussions for the major groups of soil micro organisms including rhizobacteria symbiotic nitrogen fixing bacteria pathogenic fungi mycorrhizal fungi and microalgae The book describes applications of soil microbial technologies in agriculture forestry and environmental management **Directory of environmental life scientists - north central r** , **Directory of Environmental Life Scientists: North central region** Institute of Ecology,1974

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