

T. Satyanarayana
Bhawdesh Harain Inhri
Anil Prakash Editors

Microorganisms in Environmental Management

Microbes and Environment



Springer

Microorganisms In Environmental Management

Microbes And Environment

**Minu Kesheri, Swarna Kanchan, Travis
B. Salisbury, Rajeshwar P Sinha**



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 *Microbial Technology for Sustainable E-waste Management* Prasenjit Debbarma, Saurabh Kumar, Deep Chandra Suyal, Ravindra Soni, 2023-03-01 This book besides discussing challenges and opportunities will reveal the microbe metal interactions and strategies for e waste remediation in different ecosystems. It will unveil the recent biotechnological advancement and microbiological approach to sustainable biorecycling of e waste such as bioleaching for heavy metal extraction valorization of precious metal biodegradation of e plastic the role of the diverse microbial community in e waste remediation genetically engineered microbes for e waste management the importance of microbial exopolysaccharides in metal biosorption next generation technologies omics based technologies etc. It also holds the promise to discuss the conservation utilization and cataloging indigenous microbes in e waste polluted niches and promising hybrid technology for sustainable e waste management. Revolution in the area of information technology and communication is constantly evolving due to scientific research and development. Concurrently the production of new electrical and electronic equipment also thus uplifting in this era of revolution. These technological advancements certainly have problematic consequences which is the

rise of huge amounts of electronic obsolesces or electronic waste e waste Improper management of both hazardous and nonhazardous substances of e waste led to a major concern in our digital society and environment Therefore a sustainable approach including microbial candidates to tackle e waste is the need of the hour Nevertheless the continuous demand for new generation gadgets and electronics set this high tech evolution to a new frontier in the last few years With this continuing trend of technological development e waste is expanding exponentially worldwide In the year of 2019 the worldwide generation of e waste was approximately 53.6 Mt of which only about 17.4% of e waste was collected and recycled and the other 82.6% was not even documented E waste contains various heterogeneous waste complexes such as metals 60% blends of many polymers 30% and halogenated compounds radioactive elements and other pollutants 10% respectively The sustainable efficient and economic management of e waste is thus a challenging task today and in the coming decades Conventional techniques such as the use of chemicals incineration and informal ways of e waste dismantling trigger serious health risks and contamination to the human population and environment respectively due to the liberation of toxic and hazardous substances from the waste In this context bio candidates especially microorganisms could be sharp edged biological recycling tools to manage e waste sustainably As microbes are omnipresent and diverse in their physiology and functional aspects they offer a wide range of bioremediation

Microbial Applications for Environmental Sustainability Arun Karnwal, Abdel Rahman Mohammad Said Al-Tawaha, 2024-05-13 This book focuses on the various applications of microorganisms for sustainable environment and the reduction of hazardous pollutants released in various forms including xenobiotics e waste pesticides insecticides plastic heavy metals paper waste medical waste textile dyes and their impact on environmental and human health The book involves a series of research reports that explain the application of microbes used to solve real life issues raised due to changes happening in environment including pollution by covering applications including the use of bacteria fungi microalgae and biofilm in the detection and degradation of crude oil pesticides dyes e waste heavy metals and other pollutants It also focuses on integrative strategies in the application of microbial nanomaterials for remediation of pollutant This material will help environmental scientists and microbiologists to learn about existing environmental problems and suggest novel ways to control or contain their effects by employing various treatment approaches

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 Waste Management and Resource Recycling in the Developing World Pardeep Singh, Pramit Verma, Rishikesh Singh, Arif Ahamad, André C. S. Batalhão, 2022-12-08

Waste Management and Resource Recycling in the Developing World provides a unique perspective on the state of waste management and resource recycling in the developing world offering practical solutions based on innovative tools and technologies along with examples and case studies The book is organized by waste type including electronic industrial and biomedical hazardous with each section covering advanced techniques such as remote sensing and GIS as well as socioeconomic factors transnational transport and policy implications Waste managers environmental scientists sustainability practitioners and engineers will find this a valuable resource for addressing the challenges of waste management in the developing world There is high potential for waste management to produce energy and value added products Sustainable waste management based on a circular economy not only improves sanitation it also provides economic and environmental benefits In addition to waste minimization waste to economy and waste to energy have become integral parts of waste management practices A proper waste management strategy not only leads to reduction in environmental pollution but also moves toward generating sufficient energy for improving environmental sustainability in coming decades Presents case studies in every section to illustrate practical applications across the globe Includes lessons learned from developed regions that can be applied to developing regions Organized by type of waste with consistent coverage in each section to promote ease of navigation *Microbial Diversity in Ecosystem Sustainability and Biotechnological Applications*

Tulasi Satyanarayana, Bhavdish Narain Johri, Subrata Kumar Das, 2019-07-17 This book discusses microbial diversity in various habitats and environments its role in ecosystem maintenance and its potential applications e g biofertilizers biocatalysts antibiotics other bioactive compounds exopolysaccharides etc The respective chapters all contributed by renowned experts offer cutting edge information in the fields of microbial ecology and biogeography The book explains the reasons behind the occurrence of various biogeographies and highlights recent tools e g metagenomics that can aid in biogeography studies by providing information on nucleic acid sequence data thereby directly identifying microorganisms in various habitats and environments In turn the book describes how human intervention results in depletion of biodiversity and

how numerous hotspots are now losing their endemic biodiversity resulting in the loss of many ecologically important microorganisms In closing the book underscores the importance of microbial diversity for sustainable ecosystems 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 **Relationship Between Microbes and the Environment for Sustainable Ecosystem Services, Volume 2** Jastin Samuel,Ajay Kumar,Joginder Singh Panwar,2022-08-20 Relationship Between Microbes and Environment for Sustainable Ecosystem Services Volume Two Microbial Mitigation of Waste for Sustainable Ecosystem Services promotes advances in sustainable solutions value added products and fundamental research in microbes and the environment Topics include advanced and recent discoveries in the use of microbes for sustainable development Volume Two describes the successful application of microbes and their derivatives for waste management of potentially toxic and relatively novel compounds This proposed book will be helpful to environmental scientists experts and policymakers working in the field of microbe based mitigation of environmental wastes The book provides reference information ranging from the description of various microbial applications for the sustainability in different aspects of food energy environment industry and social development Covers the latest developments recent applications and future research avenues in microbial biotechnology for sustainable development Includes expressive tables and figures with concise information about sustainable ecosystem services Provides a wide variety of applications and modern practices of harnessing the potential of microbes in the environment **Microbial Omics in Environment and Health** Minu Kesheri,Swarna Kanchan,Travis B. Salisbury,Rajeshwar P Sinha,2024-06-26 This book describes the basic concepts and recent advances in new discoveries and technologies related to microbial omics and their role in environmental research and human health The term omics refers to a blend of high throughput analysis and traditional methods including genomics transcriptomics proteomics lipidomics and metabolomics for a variety of applications in the field of life sciences biomedical sciences environmental sciences and related industries The book aims to fill the existing gap in terms of a comprehensive approach that incorporates recent advances in

this dynamic field and provides an answer to why this field requires an interdisciplinary research approach The focus of this book is on the applications of genomics epigenomics metagenomics integrative omics machine learning and microbiome research in environmental health disease wastewater epidemiology antibiotic resistance drug discovery cancer production of secondary metabolites of microbial origin oxidative stress alleviating mechanisms etc The overall construction of this book emphasizes three major perspectives namely elaborate knowledge from fundamentals to recent advances in technologies about omics in general and its application in microbiology environment and health in particular illustrative figures capable of easy visualization of complex pathways and serving as a platform for highly demanded bioinformatics strategies including relevant codes programming scripts machine learning and use of artificial intelligence strategies needed to streamline the research outcomes With global contributions from authors from internationally renowned organizations who excel in relevant research this book will benefit bibliophiles and prospective audiences from the research fraternity academia professionals and experts in the field of life sciences biomedical as well as industries related to the development of drug design and novel advances in biotechnological applications

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