



Microbes And Microbial Technology Agricultural And Environmental Applications

Surajit Das,Hirak Ranjan Dash



Microbes And Microbial Technology Agricultural And Environmental Applications:

Microbes and Microbial Technology Iqbal Ahmad, Farah Ahmad, John Pichtel, 2011-02-01 This book focuses on successful application of microbial biotechnology in areas such as medicine agriculture environment and human health

Microbes and Microbial Technology Iqbal Ahmad, F. Ahmed, John Pichtel, 2011-03-30 Microbes and Microbial Technology focuses on the successful application of microbial biotechnology in areas such as medicine agriculture environment and human health

Microbial Interventions in Agriculture and Environment Dhananjaya Pratap Singh, Vijai Kumar Gupta, Ratna Prabha, 2019-11-16 Microbial communities and their functions play a crucial role in the management of ecological environmental and agricultural health on the Earth Microorganisms are the key identified players for plant growth promotion plant immunization disease suppression induced resistance and tolerance against stresses as the indicative parameters of improved crop productivity and sustainable soil health Beneficial belowground microbial interactions with the rhizosphere help plants mitigate drought and salinity stresses and alleviate water stresses under the unfavorable environmental conditions in the native soils Microorganisms that are inhabitants of such environmental conditions have potential solutions for them There are potential microbial communities that can degrade xenobiotic compounds pesticides and toxic industrial chemicals and help remediate even heavy metals and thus they find enormous applications in environmental remediation Microbes have developed intrinsic metabolic capabilities with specific metabolic networks while inhabiting under specific conditions for many generations and so play a crucial role The book Microbial Interventions in Agriculture and Environment is an effort to compile and present a great volume of authentic high quality socially viable practical and implementable research and technological work on microbial implications The whole content of the volume covers protocols methodologies applications interactions role and impact of research and development aspects on microbial interventions and technological outcomes in prospects of agricultural and environmental domain including crop production plan soil health management food nutrition nutrient recycling land reclamation clean water systems and agro waste management biodegradation bioremediation biomass to bioenergy sanitation and rural livelihood security The covered topics and sub topics of the microbial domain have high implications for the targeted and wide readership of researchers students faculty and scientists working on these areas along with the agri activists policymakers environmentalists advisors etc in the Government industries and non government level for reference and knowledge generation

Core Microbiome Javid A. Parray, Elsayed F. Abd-Allah, Nowsheen Shameem, Mohammad Yaseen Mir, 2022-05-10 Improve the quality and productivity of your crops through selecting positive and effective interactive core microbiomes As microbial cells are present in overwhelming numbers in our soil it is perhaps inevitable that microbes are found extensively in plant and animal tissue The role of microbiomes on the regulation of physiological processes in animals has been extensively researched in recent years but the overarching role of the plant microbiome has yet to be discovered Core Microbiome Improving Crop Quality and

Productivity is an attempt to remediate some of that deficit as the first book to summarize feature of microbial communities that make up the plant microbiome There is substantial evidence that these communities are crucial in disease control enhanced nutrient acquisition and stress tolerance a feature more important than ever due to climate change A further focus on improving how core microbiomes interact so that they are both phenotypically and genotypically very adaptive and sustainable will allow the reader to improve the quality and productivity of crops so that they may be considered sustainable agriculture Core Microbiome readers will also find Descriptions of the basic structure of core microbiomes and their functions across various habitats New and cutting edge trends and technological innovations highlighted that use core microbiomes to harness plant microbiome interaction The structure classification and biotechnological applications of aquatic core microbiomes in addition to the material on plant microbiomes As a broad introduction to the interaction of core microbiome and plant productivity Core Microbiome is ideal for researchers and scientists working in the field of environmental science environmental microbiology and waste management Similarly undergraduate and graduate students in these fields as well as in agriculture biotechnology biosciences and life and environmental sciences will also benefit from this work

Microbial Ecosystems in Central Andes Extreme Environments María Eugenia Farías, 2020-05-27 The Central Andean Altiplane represents a unique extreme environment due to its high altitude closed basins that modulate the salt pans and saline wetlands surrounded by deserts as well as the considerable influence of volcanic activity UV radiation arsenic content high salinity alkalinity and low dissolved oxygen levels together with extreme daily temperature fluctuations and oligotrophic conditions shape an environment that resembles the early Earth and even more extraterrestrial conditions By developing simple biofilms stratified microbial mats or complex microbialites extreme microbial ecosystems colonize and thrived in different environments like salt flats wetlands lakes volcano vents geysers and deserts This book presents our current understanding of these amazing ecosystems providing a basis for their protection and sustainable utilization The main audience for this book included researchers and graduate students as well as professionals working in the government mining industry and similar activities

Microbial Diversity in the Genomic Era Surajit Das, Hirak Ranjan Dash, 2024-03-23 Microbial Diversity in the Genomic Era Second Edition presents techniques used for microbial taxonomy and phylogeny along with their applications and respective strengths and challenges Though many advanced techniques for the identification of unknown bacterium are available in the genomic era a far fewer number of the total microbial species have been discovered and identified to date With that in mind this book incorporates recently developed biosystematics methods and approaches to assess microbial taxonomy with suitable recommendations for where to apply them across the range of bacterial identification and infectious disease research Here international researchers in the field first provide a broad overview of microbial genomics research and microbiome directed medicine followed by sections on molecular tools for microbial diversity research extremophilic microbial diversity functional microbial diversity across application areas microbial diversity

and infectious disease research and future directions for research Step by step methodologies are provided for key techniques along with applied case studies breaking down recent research studies into the practical components illuminating pathways for new studies across the field This new edition has been fully updated to address advances in the field of microbiome directed medicine and whole genome sequencing for studying microbial diversity considering both recent technological advances and new applications areas from extremophile studies to the latest approaches in human microbiome analysis Instructs in techniques used for microbial taxonomy and phylogeny with discussions of their applications and respective pros and cons Reviews the evolving field of microbial typing and the genomic technologies that enable comparative metagenomic analysis of complex microbial environments Covers microbiome directed translational research as well as whole genome sequencing for studying microbial diversity with newly added research protocols and case studies Reviews future applications in the field of microbiome directed medicine Features chapter contributions from global experts in the field

Environmental Sustainability P. Thangavel,G. Sridevi,2014-11-06 Covers different categories of green technologies e g biofuels renewable energy sources phytoremediation etc in a nutshell Focuses on next generation technologies which will help to attain the sustainable development The chapters widely cover for students faculties and researchers in the scientific arena of Environmentalists Agriculturalists Engineers and Policy Makers The World Environment Day 2012 is prepared to embrace green economy The theme for 2012 encompasses various aspects of human living ranging from transport to energy to food to sustainable livelihood Green technology an eco friendly clean technology contributes to sustainable development to conserve the natural resources and environment which will meet the demands of the present and future generations The proposed book mainly focuses on renewable energy sources organic farming practices phyto bioremediation of contaminants biofuels green buildings and green chemistry All of these eco friendly technologies will help to reduce the amount of waste and pollution and enhance the nation s economic growth in a sustainable manner This book is aimed to provide an integrated approach to sustainable environment and it will be of interest not only to environmentalists but also to agriculturists soil scientists and bridge the gap between the scientists and policy makers

Mushroom Biotechnology for Improved Agriculture and Human Health Charles Oluwaseun Adetunji,Chukwuebuka Egbuna,Oluwatosin Ademola Ijabadeniyi,Samantha C. Karunarathna,2025-05-20 The book is essential for those seeking to understand innovative and sustainable solutions to global food insecurity and health challenges as it offers invaluable insights into the transformative potential of mushroom biotechnology and its applications The intervention of microbial biotechnology in various sectors has displayed remarkable growth linked to sustainable innovations and biotechnological utilization of beneficial microorganisms such as mushrooms for the benefit of humanity Recent advancements in mushroom biotechnology will prove successful due to mushrooms nature as natural problem solvers including their ability to enhance nutritional values obtained from agricultural crops sustained health benefits derived from pharmacologically active substances used to

manage human diseases and improve crop production This book will serve as one of the first volumes addressing the usefulness of mushroom biotechnology giving detailed state of the art information on recent advancements and how the industry could maximize profits The volume will also assist the pharmaceutical and medical sectors by examining the discovery of novel pharmacological and bioactive compounds that could replace the various adverse effects when using synthetic drugs It presents a simple adaptable reproducible methodology that will help researchers and scientists adopt these methodologies for similar projects Readers will find that the book Presents recent advances in the application of mushroom biotechnology in various sectors food agriculture and health for sustainable innovations for optimum benefit of mankind Details applications of mushrooms for sustainable agriculture through their plant growth promoting attributes and management of pests and diseases in plants and soils Discusses the discovery of novel pharmacological substances from mushrooms for applications in the biomedical sector Audience The book is valuable reference work for scientists and researchers working in the fields of pharmaceutical sciences agricultural microbiology plant pathology botany agriculture microbiology biotechnology nanotechnology environmental microbiology and microbial biotechnology

Geomicrobiology and Biogeochemistry Nagina Parmar,Ajay Singh,2013-12-09 Over the past 4 billion years microorganisms have contributed to shaping the earth and making it more habitable for higher forms of life They are remarkable in their metabolic diversity and their ability to harvest energy from oxidation and reduction reactions Research on these microbiological processes has led to the newly evolving fields of geomicrobiology and biogeochemistry linking the geosphere and the biosphere This volume of the Soil Biology series provides an overview of the biogeochemical processes and the microorganisms involved with an emphasis on the industrial applications Topics treated include aspects such as bioremediation of contaminated environments biomining biotechnological applications of extremophiles subsurface petroleum microbiology enhanced oil recovery using microbes and their products metal extraction from soil soil elemental cycling and plant nutrition

Sustainable Process Engineering Gyorgy Szekely,2021-03-08 Sustainable process engineering is a methodology to design new and redesign existing processes that follow the principles of green chemistry and green engineering and ultimately contribute to a sustainable development The newest achievements of chemical engineering opened new opportunities to design more efficient safe compact and environmentally benign chemical processes The book provides a guide to sustainable process design applicable in various industrial fields Discusses the topic from a wide angle chemistry materials processes and equipment Includes state of the art research achievements that are yet to be industrially implemented Transfers knowledge between chemists and chemical engineers QR codes direct the readers to animations short videos magazines and blogs on specific topics Worked examples deepen the understanding of the sustainable assessment of chemical manufacturing processes

Biocoating for Fertilizer Industry Husnul Azan Tajarudin,Charles Wai Chun Ng,2022-10-18 This book presents the advancement of coating materials technology especially in agriculture particularly for fertilizers Fertilizers are a

critical component in meeting rising demands and ensuring global food security A new generation of fertilizers made by coating granules with biopolymers address these issues Coating in agriculture is an important area in research for a more sustainable future Many examples and instances from existing research and related research gaps are discussed It includes applications of composites as fertilizer s coating advantages and disadvantages of fertilizer coating from composites applications of bacteria in composite applications of bacteria in fertilizer industry as well as the common techniques of coating fertilizers with drying process

Environmental Mycology in Public Health Carla Viegas,Ana Catarina Pinheiro,Raquel Sabino,Susana Viegas,João Brandão,Cristina Veríssimo,2015-08-03 Environmental Mycology in Public Health Fungi and Mycotoxins Risk Assessment and Management provides the most updated information on fungi an essential element in the survival of our global ecology that can also pose a significant threat to the health of occupants when they are present in buildings As the exposure to fungi in homes is a significant risk factor for a number of respiratory symptoms including allergies and hypersensitivity pneumonitis this book presents information on fungi and their disease agents important aspects of exposure assessment and their impacts on health This book answers the hard questions including How does one detect and measure the presence of indoor fungi and What is an acceptable level of indoor fungi It then examines how we relate this information to human health problems Provides unique new insights on fungi and their metabolites detection in the environmental and occupational settings Presents new information that is enriched by significant cases studies Multi contributed work edited by a proficient team in medical and environmental mycology with different individual expertise Guides the readers in the implementation of preventive and protective measures regarding exposure to fungi

Encyclopedia of Marine Biotechnology Se-Kwon Kim,2020-08-14 A keystone reference that presents both up to date research and the far reaching applications of marine biotechnology Featuring contributions from 100 international experts in the field this five volume encyclopedia provides comprehensive coverage of topics in marine biotechnology It starts with the history of the field and delivers a complete overview of marine biotechnology It then offers information on marine organisms bioprocess techniques marine natural products biomaterials bioenergy and algal biotechnology The encyclopedia also covers marine food and biotechnology applications in areas such as pharmaceuticals cosmeceuticals and nutraceuticals Each topic in Encyclopedia of Marine Biotechnology is followed by 10 30 subtopics The reference looks at algae cosmetics drugs and fertilizers biodiversity chitins and chitosans aerophysinin 1 toluquinol astaxanthin and fucoxanthin and algal and fish genomics It examines neuro protective compounds from marine microorganisms potential uses and medical management of neurotoxic phycotoxins and the role of metagenomics in exploring marine microbiomes Other sections fully explore marine microbiology pharmaceutical development seafood science and the new biotechnology tools that are being used in the field today One of the first encyclopedic books to cater to experts in marine biotechnology Brings together a diverse range of research on marine biotechnology to bridge the gap between scientific research and the industrial arena Offers clear

explanations accompanied by color illustrations of the techniques and applications discussed Contains studies of the applications of marine biotechnology in the field of biomedical sciences Edited by an experienced author with contributions from internationally recognized experts from around the globe Encyclopedia of Marine Biotechnology is a must have resource for researchers scientists and marine biologists in the industry as well as for students at the postgraduate and graduate level It will also benefit companies focusing on marine biotechnology pharmaceutical and biotechnology and bioenergy

Wastewater Treatment Maulin P. Shah,Angana Sarkar,Sukhendu Mandal,2021-01-30 Wastewater Treatment Cutting Edge Molecular Tools Techniques and Applied Aspects reports new findings in existing molecular biology strategies including their limitations challenges and potential application to remove environmental pollutants through advancements made in cutting edge tools In addition the book introduces new trends and advances in environmental bioremediation with thorough discussions on recent developments in this field Describes the application of different omics tools in wastewater treatment plants WWTPs Describes the role of microorganisms in WWTPs Points out the reuse of treated wastewater through emerging technologies Includes the recovery of resources from wastewater Emphasizes the need for the use of cutting edge molecular tools

Food Traceability and Authenticity Didier Montet,Ramesh C. Ray,2017-11-22 Food traceability is a growing consumer concern worldwide Traceability is undertaken primarily at the administrative level where the use of advanced analytical tools is not available Nevertheless the determination of geographical origin is a requirement of the traceability system for the import and export of foodstuffs EU regulation 178 2002 The topics covered in this book include the history of traceability legislations and rules the actual traceability techniques and the potential analytical techniques for food traceability such as molecular methods e g DGGE SSCP next generation sequencers NGS bio captors chromatographic techniques isotopic analysis that are used for discrimination of organic food fish oils The chromatographic techniques help in the use of volatile compounds analysis The isotope analysis helps in distinguishing between chicken meat and vegetable oils Ambient mass spectrometry is used for studying mycotoxins and alkaloids in foodstuffs and their management food and feed authentication in olive and other plant oils and wine Vibrational methods e g NMR and NIRS are used to trace food by global spectrum The book reviews the current and future techniques including metabolomic techniques

The Phytopathogen

Abhijeet Ghatak,Mohammad Ansar,2017-03-31 So often new phytopathogens emerge and appear primarily in acute form and then take a chronic form such populations however in general have a limited appearance because of the lack of suitable environmental conditions The emergence of new pathogens needs to be explored in the light of their evolutionary adaptation This new volume focuses on the study of quantitative aspects of host phytopathogen linkages that result in the emergence of aggressive phytopathogens The book examines the evolution and adaptation of phytopathogens from several cropping systems

Handbook of Pest Management in Organic Farming Vincenzo Vacante,Serge Kreiter,2017-12-11 This book is an up to date and comprehensive reference covering pest management in organic farming in major crops of the world

General introductory chapters explore the management of crops to prevent pest outbreaks plant protection tools in organic farming and natural enemies and pest control The remaining chapters are crop based and discuss geographic distribution economic importance and key pests For each pest the fundamental aspects of its bio ecology and the various methods of control are presented Understanding of the scientific content is facilitated with practical advice tables and diagrams helping users to apply the theories and recommendations This is an essential resource for researchers and extension workers in crop protection integrated pest management and biocontrol and organic farming systems

Artificial or Constructed Wetlands María del Carmen Durán-Domínguez-de-Bazúa, Amado Enrique Navarro-Frómata, Josep M. Bayona, 2018-06-15 Artificial or constructed wetlands are an emerging technology particularly for tropical areas with water scarcity For big cities the sustainable management of water resources taking into account proper use is always challenging The book presents case studies illustrating the above As plants and microorganisms are a fundamental part of the correct functioning of these systems their contribution to the degradation of the organic matter and to the removal and transformation of the pollutant compounds present in the wastewaters is also a highlight of this book

Applied Environmental Biotechnology: Present Scenario and Future Trends Garima Kaushik, 2015-01-16 Applied Environmental Biotechnology Present Scenario and Future Trends is designed to serve as a reference book for students and researchers working in the area of applied environmental science It presents various applications of environmental studies that involve the use of living organisms bioprocesses engineering technology and other fields in solving environmental problems like waste and waste waters It includes not only the pure biological sciences such as genetics microbiology biochemistry and chemistry but also from outside the sphere of biology such as chemical engineering bioprocess engineering information technology and biophysics Starting with the fundamentals of bioremediation the book introduces various environmental applications such as bioremediation phytoremediation microbial diversity in conservation and exploration in silico approach to study the regulatory mechanisms and pathways of industrially important microorganisms biological phosphorous removal ameliorative approaches for management of chromium phytotoxicity sustainable production of biofuels from microalgae using a biorefinery approach bioelectrochemical systems BES for microbial electroremediation and oil spill remediation The book has been designed to serve as comprehensive environmental biotechnology textbooks as well as wide ranging reference books Environmental remediation pollution control detection and monitoring are evaluated considering the achievement as well as the perspectives in the development of environmental biotechnology Various relevant articles are chosen up to illustrate the main areas of environmental biotechnology industrial waste water treatment soil treatment oil remediation phytoremediation microbial electro remediation and development of biofuels dealing with microbial and process engineering aspects The distinct role of environmental biotechnology in future is emphasized considering the opportunities to contribute with new approached and directions in remediation of contaminated environment minimising waste releases and development

pollution prevention alternatives at before and end of pipe Biopesticides and Bioagents Md. Arshad Anwer, 2017-09-27

Insects diseases and weeds cause an almost 30% yield loss per annum in agricultural production resulting in an increased consumption of pesticides by 20% per annum throughout the world This comprehensive volume looks at the status of biopesticides and biocontrol agents in agriculture It will be a critically important reference work providing basic facts and studies on new and current discoveries of the role of biopesticides and bioagents in integrated pest management IPM The book contains four main sections covering the status of biopesticides and biocontrol agents in agriculture plant health promoting biocontrol agents parasitoids and predators genetically modified crops and *Bacillus thuringiensis* and phytochemicals in biocontrol The volume provides information regarding new advances in microbial biochemical and genetically modified and organic nanoparticles in integrated pest management Biopesticides and Bioagents Novel Tools for Pest Management should find a prominent place on the shelves of agriculture and plant scientists microbiologists biotechnologists plant pathologists and entomologists working in academic and commercial agrichemical situations and in the libraries of all research establishments and companies where this exciting subject is researched studied or taught

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