



Iqbal Ahmad - Farah Ahmad  
John Pichtel *Editors*

# Microbes and Microbial Technology

Agricultural  
and Environmental  
Applications



Springer

# Microbes And Microbial Technology Agricultural And Environmental Applications

**Trevor R. Hodkinson, Fiona M.  
Doohan, Matthew J. Saunders, Brian R.  
Murphy**

## **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 **Microbial Biotechnology** Jayanta Kumar Patra, Chethala N. Vishnuprasad, Gitishree Das, 2018-02-07 This edited book is a collection of 20 articles describing the recent advancements in the application of microbial technology for sustainable development of agriculture and environment This book covers many aspects like agricultural nanotechnology promising applications of biofuels production by algae advancements and application of microbial keratinase biocontrol agents plant growth promoting rhizobacteria bacterial siderophore use of microbes in detoxifying organophosphate pesticides bio surfactants biofilms bioremediation degradation of phenol and phenolic compounds and bioprospecting of endophytes This book intends to bring the latest research advancements and technologies in the area of microbial technology in one platform providing the readers an up to date view on the area This book would serve as an excellent reference book for researchers and students in the agricultural environmental and microbiology fields

## **Agriculturally Important Microbes for Sustainable Agriculture**

Vijay Singh Meena, Pankaj Kumar Mishra, Jaideep Kumar Bisht, Arunava Pattanayak, 2017-09-18 This book presents a compilation of case studies from different countries on achieving agricultural sustainability The book stresses that in order to meet the needs of our rapidly growing population it is imperative to increase agricultural productivity If global food production is to keep pace with an increasing population while formulating new food production strategies for developing countries the great challenge for modern societies is to boost agricultural productivity Today the application of chemicals to enhance plant growth or induced resistance in plants is limited due to the negative effects of chemical treatment and the difficulty of determining the optimal concentrations to benefit the plant In the search for alternative means to solve these problems biological applications have been extensively studied Naturally occurring plant microbe environment interactions are utilized in many ways to enhance plant productivity As such a greater understanding of how plants and microbes coexist and benefit one another can yield new strategies to improve plant productivity in the most sustainable way Developing sustainable agricultural practices requires understanding both the basic and applied aspects of agriculturally important microorganisms with a focus on transforming agricultural systems from being nutrient deficient to nutrient rich This work is divided into two volumes the aim being to provide a comprehensive description and to highlight a holistic approach respectively Taken together the two volumes address the fundamentals applications research trends and new prospects of agricultural sustainability Volume one consists of two sections with the first addressing the role of microbes in sustainability and the second exploring beneficial soil microbe interaction in several economically important crops Section I elucidates various mechanisms and beneficial natural processes that enhance soil fertility and create rhizospheric conditions favourable for high fertility and sustainable soil flora It examines the mechanism of action and importance of rhizobacteria and

mycorrhizal associations in soil In turn section II presents selected case studies involving economically important crops This section explains how agriculturally beneficial microbes have been utilized in sustainable cultivation with high productivity Sustainable food production without degrading the soil and environmental quality is a major priority throughout the world making this book a timely addition It offers a comprehensive collection of information that will benefit students and researchers working in the field of rhizospheric mechanisms agricultural microbiology biotechnology agronomy and sustainable agriculture as well as policymakers in the area of food security and sustainable agriculture

*Recent Developments in Microbial Technologies* Ram Prasad,Vivek Kumar,Joginder Singh,Chandrama Prakash

Upadhyaya,2020-12-07 This book focuses on the application of microorganisms in various aspects of life such as plant protection and improvement environmental remediation and the improvement of plant human health Various applications of microorganisms are examined in depth e g applied microbiology in agriculture microbes in the environment the development of new microbial enzymes and microbes in human health In turn the book shares insights into the diverse microorganisms that have been explored and exploited in the development of various applications for agricultural improvements It also discusses the detection and exploitation of microorganisms in the diagnosis of human diseases which offer potential holistic approaches to health Presenting the latest information and findings on the applications of microbial biotechnology the book offers a valuable resource

**Microbes in Agriculture and Environmental Development** Chhatarpal Singh,Shashank Tiwari,Jay Shankar Singh,Ajar Nath Yadav,2020-10-27 The collection of essays in Microbes in Agriculture and Environmental Development explores the applications of microbes for the improvement of environmental quality and agricultural productivity through inoculants and enzymes These are useful for the conservation and restoration of degraded natural and agricultural ecosystems crop yield extension soil health improvement and other aspects of agriculture and the environment It discusses the effective use of microbial technology wastewater treatment and recycling of agricultural and industrial wastes It provides detailed accounts of recent trends in microbial application in plant growth promotion soil fertility microbial biomass and diversity and environmental sustainability through bioremediation biodegradation and biosorption processes Features Discusses microbes and their applications for sustainable agriculture and environmental protection in agro environmental circumstances Presents innovative and eco friendly approaches for the remediation of contaminated soil and wastewater Focuses on green technologies and sustainability Includes chapters on sustainable agriculture development through increasing soil fertility physico chemical properties and soil microbial biomass in nutrient deprived soils Defines the role of microbial bio formulation based consortia in the productivity improvement of agricultural crops It will be an invaluable addition to the bookshelves of researchers and graduate students in agriculture and environmental engineering soil science microbiology sustainable agriculture and ecosystems Dr Chhatarpal Singh is presently the President of Agro Environmental Development Society AEDS Majhra Ghat Rampur Uttar Pradesh India Dr Tiwari is currently working in the

field of methanotrophs ecology methane oxidizing bacteria which is sole entity responsible for the oxidation of potent greenhouse gas CH4 Dr Jay Shankar Singh is presently working as a faculty member in the Department of Environmental Microbiology at Babasaheb Bhimrao Ambedkar University in Lucknow India Dr Ajar Nath Yadav is currently serving as an assistant professor in the Department of Biotechnology Akal College of Agriculture Eternal University Baru Sahib Himachal Pradesh India

**Microbiological Challenges in the Energy Industries** Susmitha Purnima Kotu,Torben Lund Skovhus,Kenneth Wunch,2025-10-20 With an emerging focus on fighting climate change and improving sustainability it is imperative to share knowledge gained from investigating and addressing microbiological challenges in the non renewable industry to the renewable industry This book explores topics related to microbiological challenges impacting the energy sector The chapters cover technological advances related to a wide range of topics including but not limited to microbiologically influenced corrosion in the energy sector hydrocarbon biodegradation and hydrogen storage It offers cross disciplinary knowledge and facilitates collaboration that can lead to holistic solutions for addressing complex microbiological challenges faced by the energy industry Provides real world perspectives on emerging trends market demands and technological challenges Explores fundamental concepts and disruptive breakthroughs Bridges the gap between theory and application accelerating the development of cutting edge solutions and widespread adoption of technologies to address microbiological challenges This text is aimed at an interdisciplinary audience spanning readers in materials chemical process corrosion environmental civil and bioengineering The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

[Endophytes for a Growing World](#) Trevor R. Hodkinson,Fiona M. Doohan,Matthew J. Saunders,Brian R. Murphy,2019-03-21 Discusses the role of endophytes in food security forestry and health It outlines their general biology spanning theory to practice

**Advanced Microbial Technology for Sustainable Agriculture and Environment** Saurabh Gangola,Saurabh Kumar,Samiksha Joshi,Pankaj Bhatt,2023-05-18 Advanced Microbial Technology for Sustainable Agriculture and Environment focuses on plant microbe interactions in respect to bioremediation and plant growth promotion providing insights on diverse approaches such as genomics metagenomics proteomics bioinformatics and other high throughput analyses of environmentally relevant microorganisms The impact of frequent applications of potentially toxic chemicals pesticides and fertilizers and increased industrialization processes on microbial diversity emphasizes the potential threat to microbial biodiversity in ecosystems This is an ideal resource on current trends and the future of PGPR developments with bioremediation potential Moreover it gives a deep understanding of the genetics of microbial biodegradation and different remediation mechanisms that help to re establish the natural environment Helps readers find sustainable ways for environmental clean up and increased agricultural productivity Gives a systematic overview of the role of PGPR in bioremediation selection and preparation of potential PGPR microbial inoculum for bioremediation biodegradation

and plant growth promotion illustrates the importance of PGPR in the bioremediation of potentially hazardous and relatively novel compounds with the maintenance of sustainable agricultural productivity Addresses emerging novel approaches of PGPR based biodegradation of toxic compounds and highlights key developments and challenges associated with the processes

### **Impact of Environmental Factors on the Health of Children and Older Adults** Zhaoling Li,Xin

Long, Jiayuan Wang, Jiao Lu, Yichen Wang, 2025-12-10 Environmental factors particularly air pollution significantly affect human health leading to conditions such as stroke heart disease lung cancer and respiratory ailments As climate change progresses its health implications become increasingly acute through indirect pathways like altered weather patterns affecting particularly sensitive demographics like children and older adults Both groups are crucial to the fabric of family community and economic spheres yet they remain highly vulnerable to environmental stressors This Research Topic will focus on identifying and quantifying the effects of environmental factors excluding extreme weather events on these vulnerable populations A thorough exploration of these impacts will help provide actionable data and inform policy decisions thus optimizing environmental health management and promoting sustainable practices to support healthy aging and societal resilience

### *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

### Microbes and Microbial Biotechnology for Green Remediation Junaid

Ahmad Malik, 2022-06-20 Microbes and Microbial Biotechnology for Green Remediation provides a comprehensive account of sustainable microbial treatment technologies The research presented highlights the significantly important microbial species involved in remediation the mechanisms of remediation by various microbes and suggestions for future improvement of bioremediation technology The introduction of contaminants due to rapid urbanization and anthropogenic activities into the environment causes unsteadiness and distress to the physicochemical systems including living organisms Hence there is an immediate global demand for the diminution of such contaminants and xenobiotics which can otherwise adversely affect the living organisms Over time microbial remediation processes have been accelerated to produce better eco friendlier and more biodegradable products for complete dissemination of these xenobiotic compounds The advancements in microbiology and biotechnology lead to the launch of microbial biotechnology as a separate area of research and contributed dramatically to the development of the areas such as agriculture environment biopharmaceutics and fermented foods Microbes stand as an imperative efficient green and economical alternative to conventional treatment technologies The proposed book provides cost effective and sustainable alternatives This book serves as a reference for graduate and postgraduate students in

environmental biotechnology and microbiology as well as researchers and scientists working in the laboratories and industries involved in research related to microbiology environmental biotechnology and allied research Discusses important microbial activities such as biofertilizer biocontrol biosorption biochar biofilm biodegradation bioremediation bioclogging and quorum sensing Covers all the advanced microbial bioremediation techniques which are finding their way from the laboratory to the field for revival of the degraded agro ecosystems Examines the role of bacteria fungi microalgae *Bacillus* sp *Prosopis juliflora* *Deinococcus radiodurans* *Pseudomonas methanotrophs* siderophores and PGPRs as the biocontrol and green remediation agents for soil sustainability *Biopesticides* Amitava Rakshit,Vijay Singh Meena,P.C. Abhilash,B.K. Sarma,H B Singh,Leonardo Fraceto,Manoj Parihar,Anand Kumar Singh,2021-11-17 Biopesticide Volume Two the latest release in the Advances in Bioinoculant series provides an updated overview on the active substances utilized in current bioinsecticides along with information on which of them can be used for integrated pest management programs in agro ecosystems The book presents a comprehensive look at the development of novel solutions against new targets also introducing new technologies that enhance the efficacy of already available active substances Finally readers will find insights into the advanced molecular studies on insect microbial community diversity that are opening new frontiers in the development of innovative pest management strategies This book will be valuable to those prioritizing agro biodiversity management to address optimal productizing and enhanced food security Explores the increasing number of newly introduced and improved products that can be used alone or in rotation or combination with conventional chemicals Promotes the importance of and tactics for managing the agro ecosystem surrounding food security Provides state of the art description of various approaches and techniques for the real world application of biopesticides *Microbial Resource Technologies for Sustainable Development* Joginder Singh Panwar,Deepansh Sharma,2022-06-25 Microbial Resource Technologies for Sustainable Development describes the production and uses of microbial cells and metabolites and reviews the microbial resource technologies associated with providing sustainable solutions options in future endeavors in managing microbial resources The book includes the recent development and scientific demonstrations of microbial technologies in the relationship between microbes and the environment focusing on its effective resource management to achieve agricultural and environmental sustainability Topics covered in the book include recent applications and exploration of the development of Marine Microbial Technologies for marine resources soil microbes as biopolymers for enhancing mechanical properties of soil and more Other topics discussed include rhizosphere microbiome for enhancement of the cereal crops endophytic fungal communities in crops grown under different farming systems microbiota of termite for lignocellulose breakdown microbial consortium technologies to produce biomethane from waste effluents microbial technologies for sustainable food additives production biological synthesis of the nanoparticles fungal cellulases and efficient biofuel and acetic acid production using waste residues with an emphasis on the commercial exploitation of such microbial technologies Discusses the enhancement

of plant production through growth promoting microbes Considers microbial degradation and environmental management of wastes Covers microbial applications in biofuel and bioenergy production Explores plant microbe interactions for removal of heavy metals from contaminated areas Explains engineered microorganisms for effective bioremediation Describes potential indigenous effective microbes for food and industrial treatment processes Presents research on microbes for sustainable agricultural practices

**Microbial Technology for Sustainable Environment** Pankaj Bhatt, Saurabh Gangola, Dhanushka Udayanga, Govind Kumar, 2021-09-29 Microorganisms are ubiquitous on earth. These microorganisms are able to perform various functions in the environment. Microbial applications are used as biofertilizers, bioremediation, biofortification, and other sustainable approaches of environmental development. Indigenous microbial cultures have the potential to perform various functions that are beneficial to achieve the sustainable goals. To date, different strains have been commercialized for the industrial and common applications for the sustainable environment. This book will cover different aspects of microbial technology for sustainable development.

**Application of Microbes in Environmental and Microbial Biotechnology** Inamuddin, Mohd Imran Ahamed, Ram Prasad, 2022-01-03 This comprehensive edited book on microbial prospective discusses the innovative approaches and investigation strategies as well as provides a broad spectrum of the cutting edge research on the processing properties and technological developments of microbial products and their applications. Microbes find very important applications in our lives including industries and food processing. They are widely used in the fermentation of beverages, processing of dairy products, production of pharmaceuticals, chemicals, enzymes, proteins, and biomaterials. Conversion of biomass into fuel, fuel cell technology, health, and environmental sectors. Some of these products are produced commercially while others are potentially valuable in biotechnology. Microorganisms are considered invaluable in research as model organisms. This is a useful compilation for students and researchers in microbiology, biotechnology, and chemical industries.

**Microbes in Land Use Change Management** Jay Shankar Singh, Shashank Tiwari, Chhatarpal Singh, Anil Kumar Singh, 2021-08-20 Microbes in Land Use Change Management details the various roles of microbial resources in management of land uses and how the microbes can be used for the source of income due to their cultivation for the purpose of biomass and bioenergy production. Using various techniques, the disturbed and marginal lands may also be restored eco-friendly in present era to fulfil the feeding needs of mankind around the globe. Microbes in Land Use Change Management provides standard and up to date information towards the land use change management using various microbial technologies to enhance the productivity of agriculture. Needless to say that Microbes in Land Use Change Management also considers the areas including generation of alternative energy sources, restoration of degraded and marginal lands, mitigation of global warming gases, and next generation omics technique etc. Land use change affects environment conditions and soil microbial community. Microbial population and its species diversity have influence in maintaining ecosystem balance. The study of changes of microbial population provides an idea about the variation occurring in a specific area and possibilities of

restoration Meant for a multidisciplinary audience Microbes in Land Use Change Management shows the need of next generation omics technologies to explore microbial diversity Describes the role of microbes in generation of alternative source of energy Gives recent information related to various microbial technology and their diversified applications Provides thorough insight in the problems related to landscape dynamics restoration of soil reclamation of lands mitigation of global warming gases etc eco friendly way using versatility of microbes Includes microbial tools and technology in reclamation of degraded disturbed and marginal lands mitigation of global warming gases Environmental and Agricultural Microbiology Bibhuti Bhushan Mishra, Suraja Kumar Nayak, Swati Mohapatra, Deviprasad Samantaray, 2021-09-22 Environmental and Agricultural Microbiology Uniquely reveals the state of the art microbial research advances in the environment and agriculture fields Environmental and Agricultural Microbiology Applications for Sustainability is divided into two parts which embody chapters on sustenance and life cycles of microorganisms in various environmental conditions their dispersal interactions with other inhabited communities metabolite production and reclamation Though books pertaining to soil agricultural microbiology environmental biotechnology are available there is a dearth of comprehensive literature on the behavior of microorganisms in the environmental and agricultural realm Part 1 includes bioremediation of agrochemicals by microalgae detoxification of chromium and other heavy metals by microbial biofilm microbial biopolymer technology including polyhydroxyalkanoates PHAs and polyhydroxybutyrate PHB their production degradability behaviors and applications Biosurfactants production and their commercial importance are also systematically represented in this part Part 2 having 9 chapters facilitates imperative ideas on approaches for sustainable agriculture through functional soil microbes next generation crop improvement strategies via rhizosphere microbiome production and implementation of liquid biofertilizers mitigation of methane from livestock chitinases from microbes extremozymes an enzyme from extremophilic microorganism and their relevance in current biotechnology lithobiontic communities and their environmental importance have all been comprehensively elaborated In the era of sustainable energy production biofuel and other bioenergy products play a key role and their production from microbial sources are frontiers for researchers The final chapter unveils the importance of microbes and their consortia for management of solid waste in amalgamation with biotechnology Audience The book will be read by environmental microbiologists biotechnologists chemical and agricultural engineers Microbes Ajit Varma, 1998 Society benefits from microorganisms in many ways They are necessary for the production of breads cheese beer antibiotics vaccines vitamins enzymes and many other important products Microorganisms are indispensable components of our ecosystems Indeed modern biotechnology rests upon a solid microbiological foundation Bioprospecting of Microbial Diversity Pradeep Verma, Maulin P. Shah, 2022-02-01 Bioprospecting of Microbial Diversity Challenges and Applications in Biochemical Industry Agriculture and Environment Protection gives a detailed insight into the utilization of microorganisms or microorganism based bioactive compounds for the development of sustainable approaches covering recent advances and

challenges in the production and recovery of bioactive compounds such as enzymes biopesticides biofertilizers biosensors therapeutics nutraceutical and pharmaceutical products The challenges associated with the different approaches of microbial bioprospecting along with possible solutions to overcome these limitations are addressed Further the application of microbe based products in the area of environmental pollution control and developing greener technologies are discussed Providing valuable insight into the basics of microbial prospecting the book covers established knowledge as well as genomic based technological advancements to offer a better understanding of its application to various industries promoting the commercialization of microbial derived bioactive compounds and their application in biochemical industries agriculture and environmental protection studies Describes the advanced techniques available for microbial bioprospecting for large scale industrial production of bioactive compounds Presents recent advances and challenges for the application of microbe based products in agriculture and environment pollution control Provides knowledge of microbial production of bioenergy and high value compounds such as nutraceuticals and pharmaceuticals New and Future Developments in Microbial Biotechnology and Bioengineering Jay Shankar Singh, 2019-07-18 New and Future Developments in Microbial Biotechnology and Bioengineering Microbes in Soil Crop and Environmental Sustainability reviews the exploitation of microbial biodiversity in soil with respect to nutrient use efficiency also discussing the improvement and maintenance of certain physical and chemical conditions in soil that can provide economic and environmental benefits toward agricultural sustainability The utilization of microbes ranges from applications in biotechnology marginal land restoration the formulation of microbial inoculants the enhancement of crop productivity and the mitigation of global warming gases Finally various uses for microbial resources in crop disease management bioenergy production and income based on microbial cultivation are explored Highlights the developments and achievements of microbial resources and their role in the sustainable management of soil fertility and agriculture productivity Outlines the role of microbial resource and biotechnology in sustainability to industry agriculture forest and management of environment Provides up to date information on the application of microbial resources and the role of biotechnology to meet the ever increasing demand of food soil and plant productivity management Outlines enhancement in productivity through interventions of microbial bio agents and eco friendly technology

## Whispering the Secrets of Language: An Emotional Journey through **Microbes And Microbial Technology Agricultural And Environmental Applications**

In a digitally-driven earth wherever screens reign supreme and instant transmission drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases frequently get unheard. However, located within the pages of **Microbes And Microbial Technology Agricultural And Environmental Applications** a interesting literary treasure sporting with organic feelings, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, that marvelous opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the mental depths of this poignant evaluation, we will embark upon a sincere exploration of the book is key styles, dissect its fascinating publishing type, and succumb to the strong resonance it evokes deep within the recesses of readers hearts.

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