

Iqbal Ahmad · Farah Ahmad  
John Pichtel *Editors*

# Microbes and Microbial Technology

Agricultural  
and Environmental  
Applications

 Springer

# Microbes And Microbial Technology Agricultural And Environmental Applications

**Vincenzo Vacante, Serge Kreiter**



## **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

**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

**New Frontiers in Stress Management for Durable Agriculture** Amitava Rakshit, Harikesh Bahadur Singh, Anand Kumar Singh, Uma Shankar Singh, Leonardo Fraceto, 2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources increased greenhouse gas emissions and further deforestation and land degradation which will in turn produce additional stress in the soil water plant animal continuum Stress refers to any unfavorable force or condition that inhibits customary functioning in plants Concurrent manifestations of different stresses biotic and abiotic are very frequent in the environment of plants which consequently reduces yield Better understanding stress not only changes our perspective on the current environment but can also bring a wealth of benefits like improving sustainable agriculture and human beings living standards Innovative systems are called for that protect and enhance the natural resource base while increasing productivity via holistic approaches such as agroecology agro forestry climate smart agriculture and conservation agriculture which also incorporate indigenous and traditional knowledge The book New Frontiers in Stress Management for Durable Agriculture details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress biotic and abiotic stress responses as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology

**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      *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      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 mycotoxines 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      **Mycorrhizal Technology** Jeyabalan Sangeetha,Abdel Rahman Mohammad Al-Tawaha,Devarajan Thangadurai,2024-01-09 This new volume delivers the remarkable theoretical and practical findings on the outstanding applications of mycorrhizal fungi in recovering plant health in producing the mycorrhizal edible forest trees and in conserving natural resources It examines the recent research studies based on mycorrhizal technology that have explored the positive impact of root symbiosis on plant adaptation to climate associated abiotic stressors such as salinity drought flooding and high temperatures The book includes thirteen chapters partitioned into four different parts authored by international experts and researchers from different domains of plant mycorrhiza research Part I explains the role of mycorrhiza in plant growth in the metabolism of minerals and in biological control The book goes on to discuss the extensive commercial applications of mycorrhiza fungi in various industrial sectors including agriculture

horticulture and biotechnology Chapters investigate the diverse roles of mycorrhizal fungi in managing different stress conditions And lastly the volume provides in depth analyses of the ways that commercialized mycorrhizal technology can help to maintain global environmental sustainability and food security Key features Reveals the complex associations of mycorrhizal communities with soil and other soil microbes Presents the inoculum production practices for appropriate application of mycorrhizal technology in various plant production systems Discusses the commercial harvesting and applications of mycorrhizal forest trees for sustainable agricultural development and Reviews the current advancements and upcoming challenges on way of mycorrhizal technology Research in mycorrhizal technology is significantly evolving and cutting edge findings have provided understanding in how complex plant mycorrhiza associations work This volume is designed and edited to serve as a resource text for postgraduate students botanists microbiologists biotechnologists environmental biologists and industry professionals who have keen interest and attention on beneficial services and commercialization of mycorrhizal technology

*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

**Plant Microbiomes for Sustainable Agriculture** Ajar Nath Yadav, Joginder Singh, Ali Asghar Rastegari, Neelam Yadav, 2020-03-06 This book encompasses the current knowledge of plant microbiomes and their potential biotechnological application for plant growth crop yield and soil health for sustainable agriculture The plant microbiomes rhizospheric endophytic and epiphytic play an important role in plant growth development and soil health Plant and rhizospheric soil are a valuable natural resource harbouring hotspots of microbes and it plays critical roles in the maintenance of global nutrient balance and ecosystem function The diverse group of microbes is key components of soil plant systems where they are engaged in an intense network of interactions in the rhizosphere endophytic phyllospheric The rhizospheric microbial diversity present in rhizospheric zones has a sufficient amount of nutrients release by plant root systems in form of root exudates for growth

development and activities of microbes The endophytic microbes are referred to those microorganisms which colonize in the interior of the plant parts viz root stem or seeds without causing any harmful effect on host plant Endophytic microbes enter in host plants mainly through wounds naturally occurring as a result of plant growth or through root hairs and at epidermal conjunctions Endophytes may be transmitted either vertically directly from parent to offspring or horizontally among individuals The phyllosphere is a common niche for synergism between microbes and plant The leaf surface has been termed as phyllosphere and zone of leaves inhabited by microorganisms as phyllosphere The plant part especially leaves is exposed to dust and air currents resulting in the establishments of typical flora on their surface aided by the cuticles waxes and appendages which help in the anchorage of microorganisms The phyllospheric microbes may survive or proliferate on leaves depending on extent of influences of material in leaf diffuseness or exudates The leaf diffuseness contains the principal nutrients factors amino acids glucose fructose and sucrose and such specialized habitats may provide niche for nitrogen fixation and secretions of substances capable of promoting the growth of plants The microbes associated with plant as rhizospheric endophytic and epiphytic with plant growth promoting PGP attributes have emerged as an important and promising tool for sustainable agriculture PGP microbes promote plant growth directly or indirectly either by releasing plant growth regulators solubilization of phosphorus potassium and zinc biological nitrogen fixation or by producing siderophore ammonia HCN and other secondary metabolites which are antagonistic against pathogenic microbes The PGP microbes belong to different phylum of archaea Euryarchaeota bacteria Acidobacteria Actinobacteria Bacteroidetes Deinococcus Thermus Firmicutes and Proteobacteria and fungi Ascomycota and Basidiomycota which include different genera namely Achromobacter Arthrobacter Aspergillus Azospirillum Azotobacter Bacillus Beijerinckia Burkholderia Enterobacter Erwinia Flavobacterium Gluconoacetobacter Haloarcula Herbaspirillum Methylobacterium Paenibacillus Pantoea Penicillium Piriformospora Planomonospora Pseudomonas Rhizobium Serratia and Streptomyces These PGP microbes could be used as biofertilizers bioinoculants at place of chemical fertilizers for sustainable agriculture The aim of Plant Microbiomes for Sustainable Agriculture is to provide the current developments in the understanding of microbial diversity associated with plant systems in the form of rhizospheric endophytic and epiphytic The book is useful to scientist research and students related to microbiology biotechnology agriculture molecular biology environmental biology and related subjects

*Sustainable Process Engineering* Gyorgy Szekely, 2024-07-01 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     Artificial or Constructed Wetlands María del Carmen Durán-Domínguez-de-Bazúa, Amado Enrique Navarro-Frómeta, 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

**Metal and Metal-Oxide Based Nanomaterials** Rakesh Kumar Bachheti, Archana Bachheti, Azamal Husen, 2024-01-03 The book in hand namely Metal and Metal Oxide Based Nanomaterials Synthesis Agricultural Biomedical and Environmental Interventions focuses on the synthesis methods characterization techniques and diverse interventions utilizing these nanomaterials in the fields of agriculture biomedicine and environmental remediation The specific applications discussed include food packaging post harvest disease management crop production drug delivery systems other biomedical applications photocatalytic degradation of environmental pollutants and wastewater treatment Additionally it also addresses the potential risks associated with zinc nanoparticles in aquatic ecosystems and emphasizes the importance of further research and regulation in this field Overall the book provides valuable insights and serves as a comprehensive resource for researchers and scientists across various interdisciplinary subjects It serves as a valuable resource for scientists researchers and students in nanotechnology nanomedicine environmental science plant science agriculture chemistry biotechnology pharmacognosy pharmaceuticals industrial chemistry and other interdisciplinary subjects Moreover this also inspires further research innovation and the development of sustainable solutions for a better future     **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     Insecticides Ramón Eduardo Rebolledo Ranz, 2022-11-16 This book deals with all aspects of chemical pest control such as the different groups of insecticides and their modes of action problems caused by insecticides to the environment the resistance of pests to insecticides and problems and legislation of different countries regarding the application of these products It also addresses aspects of the problems caused by insecticides in fresh and marine water as well as presents research methodologies and protocols     **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

**Sustainable Development in Chemical Engineering** Vincenzo Piemonte, Marcello De Falco, Angelo Basile, 2013-05-28 Sustainable development is an area that has world wide appeal from developed industrialized countries to the developing world Development of innovative technologies to achieve sustainability is being addressed by many European countries the USA and also China and India The need for chemical processes to be safe compact flexible energy efficient and environmentally benign and conducive to the rapid commercialization of new products poses new challenges for chemical engineers This book examines the newest technologies for sustainable development in chemical engineering through careful analysis of the technical aspects and discussion of the possible fields of industrial development The book is broad in its coverage and is divided into four sections Energy Production covering renewable energies innovative solar technologies cogeneration plants and smart grids Process Intensification describing why it is important in the chemical and petrochemical industry the engineering approach and nanoparticles as a smart technology for bioremediation Bio based Platform Chemicals including the production of bioethanol and biodiesel bioplastics production and biodegradability and biosurfactants Soil and Water Remediation covering water management and re use and soil remediation technologies Throughout the book there are case studies and examples of industrial processes in practice

**Antimicrobial Resistance in Wastewater Treatment Processes** Patricia L. Keen, Raphaël Fugère, 2017-09-26 Antimicrobial resistance is arguably the greatest threat to worldwide human health This book evaluates the roles of human water use treatment and conservation in the development and spread of antimicrobial resistance Designed as a companion volume to Antimicrobial Resistance in the Environment Wiley Blackwell 2012 this book is a multi disciplinary synthesis of topics related to antimicrobial resistance and wastewater treatment processes Antimicrobial Resistance in Wastewater Treatment Processes assembles detailed discussions written by many of the world s best known experts in microbiology civil engineering chemistry environmental science public health and related fields The book presents a collection of subjects that includes Current knowledge of the role of the environment in development and spread of antimicrobial resistance Chemical analysis of antibiotics in environmental samples Molecular methods for analysis of antimicrobial resistance genes Advanced wastewater treatment processes and antimicrobial resistance effects Public perception of risk related to health consequences of antimicrobial resistance Public



health implications of antimicrobial resistance with focus on wastewater treatment processes Antimicrobial resistance has gained a foothold in the global consciousness as a serious public health threat There is a much greater appreciation for the role of the environment in the dissemination of antimicrobial resistance and the effects of pollutants that can potentially promote development of resistance in bacteria Contaminants released from wastewater treatment plants are a concern In *Antimicrobial Resistance in Wastewater Treatment Processes* readers will be guided through examinations of the current science related to this important health issue *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 **Integrated Pest Management in Tropical Regions** Carmelo Rapisarda,Giuseppe E Massimino Cocuzza,2017-12-11 This book provides up to date and comprehensive coverage of the research and application of Integrated Pest Management IPM in tropical regions The first section explores the agro ecological framework that represents the foundations of IPM in addition to emerging technologies in chemical and biological methods that are core to pest control in tropical crops The second section follows a crop based approach and provides details of current IPM applications in the main tropical food crops such as cereals legumes

root and tuber crops sugarcane vegetables banana and plantain citrus oil palm tea cocoa and coffee and also fibre crops such as cotton and tropical forests

## Enjoying the Melody of Term: An Emotional Symphony within **Microbes And Microbial Technology Agricultural And Environmental Applications**

In some sort of taken by monitors and the ceaseless chatter of instant conversation, the melodic splendor and mental symphony produced by the prepared word usually fade in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. But, located within the pages of **Microbes And Microbial Technology Agricultural And Environmental Applications** a marvelous literary treasure brimming with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that interesting masterpiece conducts readers on an emotional trip, well unraveling the concealed melodies and profound affect resonating within each cautiously crafted phrase. Within the depths with this touching analysis, we shall examine the book is central harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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