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The book covers a broad area which includes microbial diversity exploration and detection of microbial pathogens in food, concepts and applications of microbial biofilms, genetic exchange in bacterial populations in the natural environment, classical and modern techniques for studying and tracking plant growth-promoting rhizobacteria, bioremediation of contaminated soil and water using microbial surfactants, bioaugmentation – assisted phytoremediation, and degradation of agricultural ...

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Microbes and Microbial Technology: Agricultural and Environmental Applications Iqbal Ahmad , Farah Ahmad , John Pichtel Springer Science & Business Media , Feb 1, 2011 - Technology & Engineering - 516 pages

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Get this from a library! Microbes and microbial technology : agricultural and environmental applications. [Iqbal Ahmad, (Lecturer in agricultural microbiology); Farah Ahmed; John Pichtel;] -- This book focuses on successful application of microbial biotechnology in areas such as medicine, agriculture, environment and human health.

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The book covers a broad area which includes microbial diversity exploration and detection of microbial pathogens in food, concepts and applications of microbial biofilms, genetic exchange in bacterial populations in the natural environment, classical and modern techniques for studying and tracking plant growth-promoting rhizobacteria, bioremediation of contaminated soil and water using

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Microbial surfactants, bioaugmentation – assisted phytoremediation, and degradation of agricultural ...

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For the successful application of microbial inoculants in agriculture, the following aspects need to be implemented: (1) to increase the scientific/technological bases of inoculums production and application; (2) to generate specific normative for each inoculants type and its application, either on the seeds or on the soil, or to the plant to be transplanted already microbized; (3) to set up quality-control protocols; (4) to minimize the fluctuation of the field results; and (5) to expand ...

~~Microbial Biotechnology and Sustainable Agriculture ...~~



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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

## ~~Microbes in Agriculture and Environmental Development ...~~

The chapter emphasizes on different microbial technologies like biofertilizers, bio-pesticides, PGPR, GMO ' s etc. that has great potential in solving major agricultural (crop productivity, plant health protection, and soil health maintenance) and environmental issues (bioremediation of soil and water from organic and inorganic pollutants).

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## ~~Role of Microbial Technology in Agricultural ...~~

Microbial biotechnology, enabled by genome studies, will lead to breakthroughs such as improved vaccines and better disease-diagnostic tools, improved microbial agents for biological control of plant and animal pests, modifications of plant and animal pathogens for reduced virulence, development of new industrial catalysts and fermentation organisms, and development of new microbial agents for bioremediation of soil and water contaminated by agricultural runoff.

## ~~Microbial Biotechnology | National Institute of Food and ...~~

Microbes include fungi, bacteria and viruses. Farmers and ranchers often think of microbes as pests that are destructive to their crops or

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animals (as well as themselves), but many microbes are beneficial. Soil microbes (bacteria and fungi) are essential for decomposing organic matter and recycling old plant material.

## ~~Beneficial Microbes for Agriculture~~

Thus, using microbes as bioinoculants is believed to be the best substitute of chemical fertilizers as eco-friendly manner for plant growth and soil fertility. These microbes are known to be the potent tool to provide substantial benefits to crops for sustainable agriculture.

## ~~Microbial biofertilizers: Bioresources and eco-friendly ...~~

"Normally when we study a microbial environment, we take samples and only read a small fraction of the genomes present—just

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enough to ID the broad categories of microbes," said Meren.

~~Microbes in dental plaque look more like relatives in soil ...~~  
microbial biotechnology in improving the quality of life has  
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Awareness of the role of microbes and microbial biotechnology in  
improving the quality of life has been recognized worldwide. Today,  
what is urgently needed an is exploration of new microbes and

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novel genes for solving some of the major challenges of the 21st century with particular reference to sustainable agriculture, the environment and human health.

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An avocado a day keeps your gut microbes happy, study shows

Date: December 15, 2020 Source: University of Illinois College of Agricultural, Consumer and Environmental Sciences

~~An avocado a day keeps your gut microbes happy, study ...~~

Microbes and agriculture: potentials and gaps An editorial on

‘ Beneficial microbes for sustainable agricultural production ’ 1 is highly relevant to underline a major gap in perspective and policy shift towards a safe food security and future agriculture. M. S.

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Swaminathan has realized that the high input and agro-chemical based agri-

~~Microbes and agriculture: potentials and gaps~~

Who We Are. We are leader in agricultural microbiology research, develop and commercializes innovative technologies for the production of agriculture importance microbes. Microbial Farm research and consultancy is located at Tamil Nadu, India. We have been researching agriculture importance microbes especially on the physiology and development of Mycorrhizal fungi since last decade.

~~Microbial Farm~~

Careful selection of microbes and intelligent design of test assays are the key steps in developing new technologies for effective utilization

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of microorganisms for sustainable agriculture,...

~~(PDF) Microbial Applications in Agriculture and the ...~~

Microbes are the important active ingredient of microbial products that contribute to the overall growth of substitutes in synthetic agrochemicals. The functional superiority of microbials and their ability to complement soil microbiota is expected to drive the demand for microbials use in agriculture.

This book focuses on successful application of microbial biotechnology in areas such as medicine, agriculture, environment and human health.

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This book focuses on successful application of microbial biotechnology in areas such as medicine, agriculture, environment and human health.

Considering the ever-increasing global population and finite arable land, technology and sustainable agricultural practices are required to improve crop yield. This book examines the interaction between plants and microbes and considers the use of advanced techniques such as genetic engineering, revolutionary gene editing technologies, and their applications to understand how plants and microbes help or harm each other at the molecular level. Understanding plant-microbe interactions and related gene editing technologies will provide new possibilities for sustainable agriculture. The book will



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be extremely useful for researchers working in the fields of plant science, molecular plant biology, plant-microbe interactions, plant engineering technology, agricultural microbiology, and related fields. It will be useful for upper-level students and instructors specifically in the field of biotechnology, microbiology, biochemistry, and agricultural science. Features: Examines the most advanced approaches for genetic engineering of agriculture (CRISPR, TALAN, ZFN, etc.). Discusses the microbiological control of various plant diseases. Explores future perspectives for research in microbiological plant science. Plant-Microbial Interactions and Smart Agricultural Biotechnology will serve as a useful source of cutting-edge information for researchers and innovative professionals, as well as upper-level undergraduate and graduate students taking related agriculture and environmental

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science courses.

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

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view on the area. This book would serve as an excellent reference book for researchers and students in the agricultural, environmental and microbiology fields.

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,

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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

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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 CH<sub>4</sub>. 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.

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Microbial biotechnology is known as any technological application that uses microbiological systems, microbial organisms or their derivatives, to manufacture or modify products or processes for specific use. Understanding the utilization of microorganisms and microbial biotechnology in improving the quality of life has been recognized at global. Now days, what is urgently required is a searching of new microbes and novel genes for solving some of the major challenges of recent years with particular reference to sustainable agriculture, the environment and human health. Hence, it is realized that a book dealing microbial technology must be made available to meet the critical gap in applied microbiology and microbial technology for students, researchers and technology development professionals. The book covers a broad area which

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includes microbial concrete production, applications of nanotechnology in food microbiology, microbial technology of biofertilizer, Probiotics for Oral health, microbial surfactants and its potential application, Regulation of circadian rhythm by gut microflora.

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 endeavours in managing microbial resources. The book includes the recent development and scientific demonstrations of microbial technologies in the relationship between microbes and the environment focussing on its effective resource management to achieve agricultural and

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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: A sustainable approach, 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. The remaining chapters cover microbial interactions and utilization of



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**The microbial resources for sustainable agricultural crop and soil improvement in the root rhizosphere. Discusses 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 about engineered microorganisms for effective bioremediation Describes potential indigenous/effective microbes for food and industrial treatment processes Presents research on microbes for sustainable agricultural practices**

Crop Improvement through Microbial Biotechnology explains how certain techniques can be used to manipulate plant growth and

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development, focusing on the cross-kingdom transfer of genes to incorporate novel phenotypes in plants, including the utilization of microbes at every step, from cloning and characterization, to the production of a genetically engineered plant. This book covers microbial biotechnology in sustainable agriculture, aiming to improve crop productivity under stress conditions. It includes sections on genes encoding avirulence factors of bacteria and fungi, viral coat proteins of plant viruses, chitinase from fungi, virulence factors from nematodes and mycoplasma, insecticidal toxins from *Bacillus thuringiensis*, and herbicide tolerance enzymes from bacteria. Introduces the principles of microbial biotechnology and its application in crop improvement Lists various new developments in enhancing plant productivity and efficiency Explains the mechanisms of plant/microbial interactions and the beneficial use

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of these interactions in crop improvement Explores various bacteria classes and their beneficial effects in plant growth and efficiency

In agriculture, microbial biotechnology covers a wide array of subjects ranging from biofertilizers to biological control of pests and diseases; from biological N<sub>2</sub>-fixation to lignocellulose degradation; from production of biomass and biofuels to genetically engineered plants. Similarly, microbial biotechnology in aquaculture touches several aspe

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