



ENVIRONMENTAL BIOTECHNOLOGY AND CLEANER BIOPROCESSES

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Environmental Biotechnology And Cleaner Bioprocesses

A. Desbonnet, P. Edwards, D. Baker



Environmental Biotechnology And Cleaner Bioprocesses:

Environmental Biotechnology and Cleaner Bioprocesses Gloria Sanchez, Elizabeth Hernandez, 2023-06-14 As we enter a new millennium the environmental issues faced by both developing and industrialised nations are as pressing as ever Environmental biotechnologies are increasingly being viewed as a major weapon against environmental damage Cleaner production is part of this strategy and yet there is still widespread ignorance about this emerging technology Environmental Biotechnology and Cleaner Bioprocesses provides this information at various levels from introductory to advanced The first section covers the development of cleaner bioprocesses within the framework of sustainable development Aspects of environmental policy for small and medium businesses are then discussed using case studies to illustrate principles The second section covers the recycling and treatment of organic waste including the use of aquatic plants and microalgae for wastewater treatment and recovery of nutrients Section three covers bioremediation technologies and finally section four is dedicated to emerging cleaner bioprocesses and environmentally sound products All chapters have been written and edited by leading authorities in the field Students and professionals interested in environmental biotechnology and cleaner production will find the background information and detail they require in this one convenient source

Microbial Biotechnology Yuan Kun Lee, 2006 In the second edition of this bestselling textbook new materials have been added including a new chapter on real time polymerase chain reaction RTPCR and a chapter on fungal solid state cultivation There already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology To complement them this book focuses on the various applications of microbial biotechnological principles A teaching based format is adopted whereby working problems as well as answers to frequently asked questions supplement the main text The book also includes real life examples of how the application of microbial biotechnological principles has achieved breakthroughs in both research and industrial production Although written for polytechnic students and undergraduates the book contains sufficient information to be used as a reference for postgraduate students and lecturers It may also serve as a resource book for corporate planners managers and applied research personnel

Bioremediation for Environmental Sustainability, 2025-04-02 This book highlights bioremediation's role in detoxifying polluted environments using plants microbes and fungi It offers innovative eco friendly soil and water remediation strategies integrating phytoremediation microbial techniques and technological advancements to enhance environmental restoration This book includes six chapters The first chapter Phytoremediation The Green Solution explores plant based pollutant absorption and details mechanisms and applications for soil and water cleanup The second chapter Application of Fruit Wastes in the Bioremediation of Heavy Metals Mechanism Challenges and Prospects examines organic fruit components as cost effective agents for binding and removing toxic metals The third chapter Geochemical Processes Controlling Metals Pb Zn Mobility during Amended Phytostabilization on Sulfidic Mine Tailings examines the geochemical processes in the

rhizosphere of sulfidic mine tailings during phytostabilization revealing that plant activity lowers pH and increases metal release while amendment additions neutralize acidity through three geochemical processes The fourth chapter Innovations in Herbicide Bioremediation Green Solutions for Soil Contamination presents biotech strategies that combine phytoremediation microbial degradation and mechanized tools to restore herbicide contaminated soil The fifth chapter Mycoremediation An Innovative and Sustainable Approach discusses fungi's ability to break down hydrocarbons heavy metals and toxins emphasizing species specific efficiency and real world ecosystem restoration The sixth and final chapter The Role of Bioremediation in Achieving Environmental Sustainability provides a comprehensive discussion on the impact of bioremediation in advancing sustainability and its contribution to multiple sustainable development goals Each chapter is explored in detail demonstrating bioremediation's vital role in addressing environmental challenges through responsible and effective solutions Gratitude is extended to contributors editors and publishers for their collaborative efforts in producing this resource for researchers practitioners and policymakers

Soil Bioremediation Javid A. Parray, Abeer Hashem Abd Elkhalek Mahmoud, Riyaz Sayyed, 2021-03-17 SOIL BIOREMEDIATION A practical guide to the environmentally sustainable bioremediation of soil Soil Bioremediation An Approach Towards Sustainable Technology provides the first comprehensive discussion of sustainable and effective techniques for soil bioremediation involving microbes Presenting established and updated research on emerging trends in bioremediation this book provides contributions from both experimental and numerical researchers who provide reports on significant field trials Soil Bioremediation instructs the reader on several different environmentally friendly bioremediation techniques including Bio sorption Bio augmentation Bio stimulation Emphasizing molecular approaches and biosynthetic pathways of microbes this one of a kind reference focuses heavily on the role of microbes in the degradation and removal of xenobiotic substances from the environment and presents a unique management and conservation perspective in the field of environmental microbiology Soil Bioremediation is perfect for undergraduate students in the fields of environmental science microbiology limnology freshwater ecology and microbial biotechnology It is also invaluable for researchers and scientists working in the areas of environmental science environmental microbiology and waste management

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

Environmental Biotechnology P.R. Yadav,2006 Contents Introduction Microbes and Environment Water Pollution Biotechnological Detection of Pollution Prevention and Control of Water Pollution Waste Water Treatment Sewage Treatment Biotreatment of Wastes Air Pollution Marine Pollution Controlling Marine Pollution Pollution Abatement Industrial Pollution Treatment of Industrial Effluents Advanced Waste Treatment Methods Biotechnology of Biodegradation Biohydrometallurgy Bio products for Environmental Health Environmental Management

Emerging Trends in Environmental Biotechnology Sukanta Mondal,Shivesh Pratap Singh,Yogendra Kumar Lahir,2022-07-04 The environment is an all encompassing component of the ecosystem of Blue planet the earth made up of the hydrosphere atmosphere and lithosphere These three spheres have biotic and abiotic components which exhibit ecological homeostasis that provides the most appropriate survival chances for the members of biotic component and geochemical balance with abiotic components This ecosystem is subjected to relatively harsh conditions mostly created by the disastrous activities due to natural calamities and intentional and or accidental anthropogenic activities Biotechnology has become a potential tool to dissipate such environmental impacts because of the advancement it has undergone recently

Emerging Trends in Environmental Biotechnology is an outstanding collection of current research that integrates basic and advanced concepts of biotechnology such as genomics proteomics bioinformatics sequencing and imaging processes to improvise and protect the environment This book is particularly attractive for scientists researchers students educators and professionals in environmental science agriculture veterinary and biotechnology science The book will enable them to solve the problems about sustainable development with the help of current innovative biotechnologies such as recombinant DNA technology and genetic engineering which have tremendous potential for impacting global food security environmental health human and animal health and overall livelihood of mankind

Features Presents easy to read chapters Information is presented in a very accessible and logical format Identifies and explores biotechnological approaches for environmental protection Encompasses biodegradation of hazardous contaminants biotechnology in waste management nanotechnology and issues in environmental biotechnology research

Microbial Bioremediation P RAJENDRAN,P GUNASEKARAN,2019-06-07 Bioremediation which is the use of living organisms such as plants Phytoremediation and microbes such as bacteria algae and fungi Microbial bioremediation or their systems to treat the contaminants is an efficient eco friendly and economical novel alternative to

conventional treatment technologies This book would serve to inculcate in the readers the present status feasibility and the significance of microbial bioremediation The various aspects of bioremediation like biodegradation of contaminants and pollutants and bioconversion including the genetics of microbial degradation have been comprehensively discussed with precise diagrammatic representations which will make the reader appreciate the concepts without impediments

Biovalorisation of Wastes to Renewable Chemicals and Biofuels Navanietha Krishnaraj Rathinam,Rajesh Sani,2019-10-15 Biovalorisation of Wastes to Renewable Chemicals and Biofuels addresses advanced technologies for converting waste to biofuels and value added products Biovalorisation has several advantages over conventional bioremediation processes as it helps reduce the costs of bioprocesses Examples are provided of several successfully commercialized technologies giving insight into developing potential processes for biovalorisation of different wastes Different bioprocess strategies are discussed for valorising the wastes coming from the leather industry olive oil industry pulp and paper winery textile and food industries as well as aquaculture A section on biorefinery for hydrocarbons and emerging contaminants is included to cover concepts on biodesulfurization of petroleum wastes leaching of heavy metals from E waste and bioelectrochemical processes for CO₂ Chapters on algal biorefinery are also included to focus on the technologies for conversion of CO₂ sequestration and wastewater utilization Biovalorisation of Wastes to Renewable Chemicals and Biofuels can be used as course material for graduate students in chemical engineering chemistry and biotechnology and as a reference for industrial professionals and researchers who want to gain a basic understanding on the subject

Microbiome-Assisted Bioremediation Javid A. Parray,Wen-Jun Li,2024-01-20 Microbiome Assisted Bioremediation Rehabilitating Agricultural Soils provides a complete reference to the opportunities technologies and challenges of remediating contaminated soils through use of microbial means Environmental pollution and human exposure associated with heavy metals are attributed to anthropogenic activities such as mining industrial wastes and metal containing compounds in domestic and agricultural systems Microbial remediation has appeared as a promising approach to lessen the heavy metal concentration in the environment due to their sequestration and transforming ability of xenobiotic compounds Microbial bioremediation is an efficient economical and environmentally friendly procedure that reduces the cost of the cleanup process associated with heavy and toxic metal contamination Addressing the foundational aspects of microbe based approaches this book provides a valuable gateway resource for those entering the field as well as providing in depth insights into the various tools and techniques for real world application Emphasizes microbiome assisted biodegradation of toxic substances in soil Includes complete descriptions of the most recent and advanced techniques Addresses the use of GMOs nanotechnologies and in silico studies Outlines developments in the microbial degradation of synthetic plastics in soil and the biodegradation enzymes

Recent Trends in Wastewater Treatment Sughosh Madhav,Pardeep Singh,Vandana Mishra,Sirajuddin Ahmed,Pradeep Kumar Mishra,2022-07-14 This volume discusses contemporary techniques technologies

and solutions for industrial wastewater remediation and treatment It covers biological chemical and physical aspects of wastewater treatment with a background on the generation of wastewater associated with different industries as well as a comparison of traditional treatment technologies with new advancements The authors also describe the reuse and recovery of nutrients and precious metals from wastewater and how such sustainable strategies can be incorporated into industrial wastewater planning and legislation The book also contains practical and theoretical aspects of various industries and their wastewater management practices in a changing climate with an emphasis on recent research examining the environmental impact of wastewater The work will be of interest to students teachers and researchers studying wastewater pollution and remediation wastewater management based NGOs and people involved in the planning and legislation of industrial operations

Treatment of Industrial Effluents Mihir Kumar Purkait, Piya Mondal, Chang-Tang Chang, 2019-09-06 To address the issue of discharge of untreated industrial effluent in the water body causing pollution adoption of cleaner production technologies and waste minimization initiatives are being encouraged The book explains each related technology elaborately and critically analyses the same from practical application point of view In depth characterization environmental and health effects and treatment of various industrial effluents are discussed with case studies Limitations challenges and remedial actions to be taken are included at the end of each chapter Chapters are arranged as per specific type of effluents from various industries like textile tannery leather plant and oil refinery

Advanced Biofuels and Bioproducts James W. Lee, 2012-08-30 Designed as a text not only for students and researchers but anyone interested in green technology Advanced Biofuels and Bioproducts offers the reader a vast overview of the state of the art in renewable energies The typical chapter sets out to explain the fundamentals of a new technology as well as providing its context in the greater field With contributions from nearly 100 leading researchers across the globe the text serves as an important and timely look into this rapidly expanding field The 40 chapters that comprise Advanced Biofuels and Bioproducts are handily organized into the following 8 sections Introduction and Brazil's biofuel success Smokeless biomass pyrolysis for advanced biofuels production and global biochar carbon sequestration Cellulosic Biofuels Photobiological production of advanced biofuels with synthetic biology Lipids based biodiesels Life cycle energy and economics analysis High value algal products and biomethane Electrofuels

Environmental Biotechnology ESEB 2004 W. Verstraete, 2004-07-01 This book presents recent developments in the field of environmental biotechnology Three major forces are currently driving this discipline the exploration of microbial diversity by genetic and genomic tools the ongoing progress in the modelling of various transient phenomena and environmental biotechnology This book provides a state of art overview of developments in the field of environmental biotechnology concerning exploration implementation modelling economic development and safety It comprises selected peer reviewed papers that were presented at the European Symposium on Environmental Biotechnology ESEB 2004 held in Oostende Belgium April 2004

Urban Aquaculture A. Desbonnet, P. Edwards, D. Baker, 2005-01-01

Millions of people are moving from rural areas to coastal cities Meeting the basic human needs for protein foods in the future will be a difficult challenge Fishery products are the world's most important source of animal protein which has led to a doubling of the demand for fish since the 1950s As we can not expect to catch more food from the sea we must turn to farming the waters not just hunting them The new challenge for planners now is to accelerate aquaculture development and to plan for new production making urban areas of production particularly recycled urban wastewater This book includes papers from authors in the U S Europe and Asia that review these developing issues from the perspective of both developed and developing countries

Water Resources Management VII C. A. Brebbia, 2013 Containing research on recent technological and scientific developments associated with the management of surface and sub surface water this book consists of papers presented at the Seventh International Conference on Water Resources Management The biennial conference first held in 1991 is one of several water related conferences organised by the Wessex Institute of Technology We have reached a point where water has become quite a precious resource with communities around the world struggling to ensure adequate supply to their people The research shared in this volume is an important contribution to the body of literature on the topic The research covers Water management and planning The right to water and sanitation Waste water treatment and re use Water markets policies and contracts Climate change Irrigation Urban water management Hydraulic engineering Water quality Pollution contaminants and control River basin management Flood risk Wetlands Regional and geo politics of water Water resources and economics Government and regulations

The Future of Effluent Treatment Plants Maulin P. Shah, Susana Rodriguez-Couto, Kavita Mehta, 2021-05-24 The Future of Effluent Treatment Plants Biological Treatment Systems is an advanced and updated version of existing biological technologies that includes their limitations challenges and potential application to remove chemical oxygen demand COD refractory chemical oxygen demand biochemical oxygen demand BOD color removal and environmental pollutants through advancements in microbial bioremediation The book introduces new trends and advances in environmental bioremediation with thorough discussions of recent developments In addition it illustrates that the application of these new emerging innovative technologies can lead to energy savings and resource recovery The importance of respiration nitrogen mineralization nitrification denitrification and biological phosphorus removal processes in the development of a fruitful and applicable solution for the removal of toxic pollutants from wastewater treatment plants is highlighted Equally important is the knowledge and theoretical modeling of water movement through wastewater ecosystems Finally emphasis is given to the function of constructed wetlands and activated sludge processes Considers different types of industrial wastewater Focuses on biological wastewater treatments Introduces new trends in bioremediation Addresses the future of WWTPs

Biomass and Bioenergy Khalid Rehman Hakeem, Mohammad Jawaid, Umer Rashid, 2014-08-22 Biomass obtained from agricultural residues or forest can be used to produce different materials and bioenergy required in a modern society As compared to other resources available biomass is

one of the most common and widespread resources in the world Thus biomass has the potential to provide a renewable energy source both locally and across large areas of the world It is estimated that the total investment in the biomass sector between 2008 and 2021 will reach the large sum of 104 billion Presently bioenergy is the most important renewable energy option and will remain so the near and medium term future Previously several countries try to explore the utilization of biomass in bioenergy and composite sector Biomass has the potential to become the world s largest and most sustainable energy source and will be very much in demand Bioenergy is based on resources that can be utilized on a sustainable basis all around the world and can thus serve as an effective option for the provision of energy services In addition the benefits accrued go beyond energy provision creating unique opportunities for regional development The present book will provide an up to date account of non wood forest residues agricultural biomass natural fibers and energy crops together with processing properties and its applications to ensure biomass utilization and reuse All aspects of biomass and bioenergy and their properties and applications will be critically re examined The book consists of three sections presenting Non wood and forest products from forestry arboriculture activities or from wood processing agricultural biomass natural fibers from agricultural harvesting or processing and finally energy crops high yield crops and grasses grown especially for energy production

Developments in Physiology, Biochemistry and Molecular Biology of Plants Bandana Bose, 2008-01-15 The Volume 2 of the treatise on the Developments in Physiology Biochemistry and Molecular Biology of Plants provides additional information in the crucial areas for making precise and applied research in the national context on the one hand and to unravel the science on the other hand In the earlier volume the theme of publishing this needful treatise has been already made obvious However in view of the experiences and enormous advances in plant science research in the last few decades providing enough insight to scan vital research in this century has almost certainly enlightened the path to undertake necessary research projects for the benefit of mankind to which we are indispensably committed We the plant physiologists biochemists molecular biologists and plant nutritionists must be proud of our support to the world s farmers which has helped them make their achievement possible In this century up to 2025 the human population is expected to double and that is in truth a serious issue for us to trace out the limiting factors reducing yield potentiality of crop plants on the one hand and to understand the science of related processes at different levels alternatively This principally necessitates for elucidation of dimensions of environmental stresses in relation to crop plants and their genotypes optimally suitable to prevailing stress conditions Of course in the last few decades more emphasis was laid in this direction and remarkable progress has been made at the global scale to meet the challenges Owing to this distinguished scientists have been consistently reviewing and synchronizing the manifold research and signifying specific research of basic and applied implication in classified segment It is delightful to mention that our attempt to sufficiently provide the essential and comprehensive literature to speed up important research in explicit areas of plant sciences has been once again tremendously satisfactory due to exceptional

dedication of illustrious Indian scientists in the preparation of this momentous work This treatise has been ordered with twelve excellent contributions in the form of review articles by thirty well known Indian workers and academicians The reviews are relevant to guide for theme oriented research as well as for scientific future planning of research projects The four applicable sections related to I Sustainable Crop Productivity II Recent Advances in Plant Metabolism III Molecular Physiology of Plants IV Environmental Stresses in Plants consist of over twelve meaningful review articles as substantial chapters Moreover as promised prominence has been given to compile extremely important aspects of Stress Physiology The detailed choice of the contents of the various contributions has been left largely to the individual authors Doubtless this book will be of immense help to scientists teachers and students of almost all disciplines of Agriculture Botany and Biotechnology

Microbial Bioprospecting for Sustainable Development Joginder Singh, Deepansh Sharma, Gaurav Kumar, Neeta Raj Sharma, 2018-09-18 This book presents a comprehensive overview of the use of microorganisms and microbial metabolites as a future sustainable basis of agricultural environmental and industrial developments It provides a holistic approach to the latest advances in the utilization of various microorganism bioprospecting including their wide range of applications traditional uses modern practices and designing strategies to harness their potential In addition it highlights advanced microbial bioremediation approaches including genetic manipulation metagenomics analysis and bacteriophage based sensors for the detection of food borne pathogens Lastly it elaborates on the latest advances regarding the role of microbes in the sustainable development of various industrial products

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