



Microbial Biotechnology

Vijai G. Gupta, Anita Pandey



Microbial Biotechnology:

Microbial Biotechnology Alexander N. Glazer, Hiroshi Nikaido, 2007-10-01 Knowledge in microbiology is growing exponentially through the determination of genomic sequences of hundreds of microorganisms and the invention of new technologies such as genomics transcriptomics and proteomics to deal with this avalanche of information These genomic data are now exploited in thousands of applications ranging from those in medicine agriculture organic chemistry public health biomass conversion to biomining *Microbial Biotechnology Fundamentals of Applied Microbiology* focuses on uses of major societal importance enabling an in depth analysis of these critically important applications Some such as wastewater treatment have changed only modestly over time others such as directed molecular evolution or green chemistry are as current as today s headlines This fully revised second edition provides an exciting interdisciplinary journey through the rapidly changing landscape of discovery in microbial biotechnology An ideal text for courses in applied microbiology and biotechnology courses this book will also serve as an invaluable overview of recent advances in this field for professional life scientists and for the diverse community of other professionals with interests in biotechnology *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 Microbial Biotechnology Rajesh Arora, 2012 Human actions across the past few centuries have led to a depletion of the world s natural energy sources as well as large scale environmental degradation In the context of these current global issues this book covers the latest research on the application and use of microbes in topical areas such as bioremediation and biofuels With chapters covering environmental clean up microbial fuel cells and biohydrogen it provides a comprehensive discussion of the latest developments in the field of microbe utilization **Microbial Biotechnology** Pankaj Chowdhary, Sujata Mani, Preeti Chaturvedi, 2022-09-27 A holistic approach covering a wide range of environmental microbial applications along with current and future trends In *Microbial Biotechnology Role in Ecological Sustainability and Research* a team of distinguished researchers delivers an authoritative overview of the role of microbial biotechnology in the pursuit of environmental and ecological sustainability The book provides readers with compelling presentations of microbial technology including its

applications in the removal of environmental pollutants and sustainable agriculture using microbial biocontrol agents or bio fertilizers Readers will also be able to explore the microbial reduction of greenhouse gases and a wide range of other cutting edge applications including the removal of various toxic environmental contaminants such as antibiotics pesticides dyes and heavy metals Microbial Biotechnology provides A thorough introduction to microorganisms their metabolic engineering the human microbiome and other foundational topics An in depth exploration of environmental management including bioremediation through a nexus approach A fulsome treatment of current trends in microbial biotechnology and its role in sustainable production Perfect for professionals in applied microbiology biotechnology environmental engineering green chemistry and soil science Microbial Biotechnology Role in Ecological Sustainability and Research will also earn a place in the libraries of research scholars scientists and academicians with an interest in environmental microbiology and ecology

Microbial Biotechnology Farshad Darvishi Harzevili, Hongzhang Chen, 2018-10-08 Incorporates the Experiences of World Class Researchers Microbial Biotechnology Progress and Trends offers a theoretical take on topics that relate to microbial biotechnology The text uses the novel experimental experiences of various contributors from around the world designed as case studies to highlight relevant topics issues and recent developments surrounding this highly interdisciplinary field It factors in metagenomics and microbial biofuels production and incorporates major contributions from a wide range of disciplines that include microbiology biochemistry genetics molecular biology chemistry biochemical engineering and bioprocess engineering In addition it also provides a variety of photos diagrams and tables to help illustrate the material The book consists of 15 chapters and contains subject matter that addresses Microbial biotechnology from its historical roots to its different processes Some of the new developments in upstream processes Solid state fermentation as an interesting field in modern fermentation processes Recent developments in the production of valuable microbial products such as biofuels organic acids amino acids probiotics healthcare products and edible biomass Important microbial activities such as biofertilizer biocontrol biodegradation and bioremediation Students scientists and researchers can benefit from Microbial Biotechnology Progress and Trends a resource that addresses biotechnology applied microbiology bioprocess fermentation technology healthcare pharmaceutical products food innovations food processing plant agriculture crop improvement energy and environment management and all disciplines related to microbial biotechnology **Microbial Biotechnology**

Pratyosh Shukla, 2016-12-01 Microbial Biotechnology An Interdisciplinary Approach covers all aspects of microbial biotechnology whilst bringing the field of functional foods and microbial bioremediation to the fore Recounting the interdisciplinary scope of biotechnology and its discoveries this text presents innovative ideas in the field of emerging biotechnology providing the scientific community with a much needed new resource Acting as an important means of information for researchers working in interdisciplinary areas of research this text Envisages the recent ideas of novel findings in microbiology Provides insight into the various interdisciplinary research avenues Uniquely covers a diverse range

of topics Presents groundbreaking new findings in key areas of modern biotechnology Enhanced and straight forward descriptions cater to the needs of researchers working in areas of bacterial exopolysaccharides microalgal proteomics applications of Microbial L asparaginases novel aspects of bioremediation Probiotics and their impact on society and microbial community analysis in waste water treatment techniques It will also prove crucial reading for senior undergraduate and graduate students and professionals working in areas of modern biotechnology *Microbial Biotechnology* Kay Yeoman, Beatrix Fahnert, David Lea-Smith, Tom Clarke, 2021

La 4e de couverture indique In this title a team of microbiologists explore how microbial biotechnology and its applications are fundamental to our way of life They explain microbial growth and how this relates to food biotechnology as well as a number of other microbial products from fine chemicals to pharmaceuticals examine ethical and societal factors and consider the future of microbial biotechnology in the context of advances being made in synthetic biology Microbial Biotechnology Bhima Bhukya, Anjana Devi Tangutur, 2017-03-16

The new volume takes an interdisciplinary look at current technical challenges and recent developmental trends in microbial biotechnology It covers an avalanche of new information available through research by focusing on a broad spectrum of issues on different microorganisms and their recent applications and implications in agriculture soil science and forestry industry and public health and medicine Microbes present in our immediate environment have a direct or indirect influence leading to either a harmful or beneficial effect Microbial Biotechnology Technological Challenges and Developmental Trends is divided into four major sections that focus on Part I Antimicrobial Agents Role and Applications in Medicine and Health Care Part II Role of Microorganisms in Agriculture and Plant Biotechnology Part III Microbial Enzymes and Their Potential Industrial Applications Part IV Microorganisms in Environment Role and Industrial Applications Topic include organic chemistry biomass conversion optimal production processes for different microbes screening methods and application of omics approaches such as meta genomics proteomics and metabolomics or other biotechnology tools to provide a deeper understanding of the microbial based new and emerging products trends processes and technologies The chapters present unbiased original research results on microbes by incorporating case studies wherever appropriate Providing research findings applicable to the development of new methodologies applications and technologies the book will be a valuable resource for people working in various fields of microbiology *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

New and Future Developments in Microbial Biotechnology and Bioengineering Vijai G. Gupta, Anita Pandey, 2019-06-14 New and Future Developments in Microbial Biotechnology and Bioengineering Microbial Secondary Metabolites Biochemistry and Applications examines the areas of biotechnology and chemical engineering covering aspects of plants bacteria and machines and using microbes as factories The book is aimed at undergraduates post graduates and researchers studying microbial secondary metabolites and is an invaluable reference source for biochemical engineers working in biotechnology manipulating microbes and developing new uses for bacteria and fungi The applications of secondary metabolites in biotechnology pharmaceuticals diagnostics and medical device development are also extensively covered The book integrates the aforementioned frontline branches into an interdisciplinary research work to satisfy those working in biotechnology chemical engineering alternative fuel development diagnostics and pharmaceuticals Chapters related to important research work on applications of microbial secondary metabolites are written by specialists in the various disciplines from the international community Compiles the latest developments in the area of microbial secondary metabolites Authored by the top international researchers in this area Includes information related to nearly all areas of a microbial secondary metabolites system

Microbial Biotechnology for Bioenergy Naga Raju Maddela, Sesan Abiodun Aransiola, Chizoba I. Ezugwu, Lizziane Kretli Winkelstroter Eller, Laura Scalvenzi, Fangang Meng, 2024-03-08 Microbial Biotechnology for Bioenergy presents the new and emerging biotechnological and microbiological approaches in bioenergy and their economic social and environmental implications Using the latest global data and statistics it analyses how bioenergy technology improves quality of life by reducing air and water pollution and mitigates energy dependence by creating renewable resources in local communities The book is formed of three sections Section 1 addresses the Sources Challenges and Environmental Views of Bioenergy and includes an overview of bioenergy global statistics and projections for future bioenergy development the role of biotechnology and bioprocesses in bioenergy feedstock sources challenges decarbonisation and emerging innovations and technologies Section 2 Yesterday Today and Tomorrow Innovations of Bioenergy examines the vast topics of biotechnology and microbiology for bioenergy reviewing both the present day state of the art and future potential Readers will find dedicated chapters on bioconversion of biomass energy and biological residues the role of microbes the potential of organic waste to provide bioenergy the biotechnology of biofuels such as bioethanol biodiesel and biohydrogen the sustainability of cellulosic ethanol energy and artificial photosynthesis Power to X and integrating energy storage innovations and the sustainability of microbial fuel cells Finally Section 3 explores the policies and environmental aspects of bioenergy providing a global perspective on the current and future impact of bioenergy including global projections based on present day global statistics Microbial Biotechnology for Bioenergy is a valuable reference for

biotechnologists environmental engineers and microbiologists interested in bioenergy and includes explanations of the fundamentals and key concepts to ensure it is accessible to students as well as researchers and professionals Critically reviews past present and future bioenergy technologies including global statistics policies and emerging approaches Highlights opportunities to improve quality of life and mitigate energy dependence reducing air water pollution and creating renewable resources in local communities Explores environmental benefits of incorporating microbial remediation into bioenergy production

Microbial Biotechnology: Basic Research and Applications Joginder Singh,Ashish Vyas,Shanquan Wang,Ram Prasad,2020-07-07 Microbial biotechnology is an important area that promotes advanced research into using microbes for value added products human nutrition and the overall wellbeing of society This book presents the latest information on the use of microbes for sustainable development and highlights state of the art biotechnological techniques used to harness microbial biotechnological traits on a commercial scale Gathering contributions from authoritative researchers in the field it addresses recent advances in microbial biotechnological approaches that offer sustainable options for future generations Exploring a broad range of microbial products and their uses the book specifically places emphasis on the application of microorganisms in healthcare the environment and industry It also discusses various compound classes derived from microbial metabolites Pursuing a holistic approach to recent advances in the utilization of various microbes as biotechnological tools the book also covers traditional uses and explores emerging strategies to harness their full potential Accordingly it offers a valuable resource for researchers and graduate students alike

Petroleum Microbial Biotechnology: Challenges and Prospects Wael A. Ismail,Jonathan D. Van Hamme,John J. Kilbane,Ji-Dong Gu,2017-09-08 Petroleum hydrocarbons are both a product of and rich substrate for microorganisms from across all Domains of life Rooted deeply in the history of microbiology hydrocarbons have been studied as sources of carbon and energy for microorganisms for over a century As global demand for petroleum and its refined products continues to rise so do challenges associated with environmental pollution oil well souring infrastructure corrosion oil recovery transport refining and upgrading of heavy crude oils and bitumens Advances in genomics synthetic biology and metabolic engineering has invigorated interest in petroleum microbial biotechnology as interest grows in technologies for in situ methane production biodesulfurization and biodenitrogenation bio upgrading of heavy crudes microbial enhanced oil recovery corrosion control and biocatalysts for generating value added products Given the complexity of the global petroleum industry and the harsh conditions in which it operates a deeper understanding of the ecophysiology of aerobic and anaerobic microbial communities that have associations with petroleum hydrocarbons is needed if robust technologies are to be deployed successfully This research topic highlights recent advances in microbial enhanced oil recovery methanogenic hydrocarbon metabolism and carbon dioxide sequestration bioremediation microbiologically influenced corrosion biodesulfurization and the application of metagenomics to better understand microbial communities associated with petroleum hydrocarbons

Microbial

Biotechnology Providing Bio-based Components for the Food Industry Laurent Dufossé, Mireille Fouillaud, 2020-01-17

Microbes and Microbial Biotechnology for Green Remediation Junaid Ahmad Malik, 2022-06-14

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.

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.

Microbial Biotechnology in the Food Industry Faizan Ahmad, Zahra H. Mohammad, Salam A. Ibrahim, Sadaf

Zaidi,2024-02-29 Biotechnology is a promising emerging technology that uses biological systems to develop new products with broad application across medical industrial and environmental fields Biotechnology in the food industry provides solutions to microbial issues as well as broader environmental issues making it key to the safe and environmentally conscious production of all food types Microbial Biotechnology in the Food Industry focuses on the major microbial issues facing the food industry and solutions using novel biotechnology techniques The text promotes an understanding of basic and advanced microbiological issues in food production including food products food contact surfaces food operation floor and air and a wide range of issues related specific solutions using biotechnology This text provides researchers and those in the food industry with a full overview of current innovative solutions to the major microbial issues in the food industry utilizing biotechnology

New and Future Developments in Microbial Biotechnology and Bioengineering Ali Asghar Rastegari,Ajar Nath Yadav,Neelam Yadav,2020-05-15 New and Future Developments in Microbial Biotechnology and Bioengineering Trends of Microbial Biotechnology for Sustainable Agriculture and Biomedicine Systems Perspectives for Human Health discusses how microbial biotechnology helps us understand new strategies to reduce pathogens and drug resistance through microbial biotechnology The most commonly used probiotic bacteria are Lactobacillus and Bifidobacterium Therefore the probiotic strains exhibit powerful anti inflammatory antiallergic and other important properties This new book provides an indispensable reference source for engineers bioengineers biochemists biotechnologists microbiologists pharmacologists and researchers who want to know about the unique properties of this microbe and explore its sustainable biomedicine future applications Introduces the principles of microbial biotechnology and its application for sustainable biomedicine system Explores various microbes and their beneficial application for biofortification of crops for micronutrients Explains the potentials and significance of probiotics prebiotics and synbiotics in health and disease Includes current applications of beneficial microbes as Functional Food Products of Pharmaceutical Importance

Recent Advancement in Microbial Biotechnology Surajit de Mandal,Ajit Kumar Passari,2021-08-14 The rapid increase in microbial resources along with the development of biotechnological methods has revolutionized the field of microbial biotechnology Genome characterization methods and metagenomic approaches further illustrate the role of microorganisms in various fields of research Recent Advancement in Microbial Biotechnology Agricultural and Industrial Approach provides an overview on the recent application of the microorganisms in agricultural and industrial improvements The purpose of this book is to integrate all these diverse areas of research in a common platform Recent advancement in Microbial Biotechnology targets researchers from both academia and industry professors and graduate students working in molecular biology microbiology and biotechnology Gives insight in the exploration of microbial functional diversity in different systems Highlights important microbes and their role in enhancing agricultural productivity Provides understanding to the basics with advance information of microbial biotechnology Explores the importance of microbial genomes studies in

agricultural and industrial applications *Microbial Biotechnology: Principles And Applications (3rd Edition)* Yuan Kun Lee, 2013-01-30 The rapidly expanding molecular biological techniques and approaches have significant impact on microbial biotechnology hence the need for the addition of four new chapters in the third edition of this textbook Chapter 3 Application of Omics Technologies in Microbial Fermentation Chapter 5 Microbial Genome Mining for Identifying Antimicrobial Targets Chapter 21 Bacterial Biofilm Molecular Characterization and Impacts on Water Management and Chapter 23 Microbial Biomining Chapter 15 Transgenic Plants has been completely revised while most of the other chapters have been thoroughly updated in this new edition 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

This book delves into Microbial Biotechnology. Microbial Biotechnology is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Microbial Biotechnology, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Microbial Biotechnology
- Chapter 2: Essential Elements of Microbial Biotechnology
- Chapter 3: Microbial Biotechnology in Everyday Life
- Chapter 4: Microbial Biotechnology in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Microbial Biotechnology. The first chapter will explore what Microbial Biotechnology is, why Microbial Biotechnology is vital, and how to effectively learn about Microbial Biotechnology.
3. In chapter 2, this book will delve into the foundational concepts of Microbial Biotechnology. This chapter will elucidate the essential principles that need to be understood to grasp Microbial Biotechnology in its entirety.
4. In chapter 3, the author will examine the practical applications of Microbial Biotechnology in daily life. The third chapter will showcase real-world examples of how Microbial Biotechnology can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Microbial Biotechnology in specific contexts. This chapter will explore how Microbial Biotechnology is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Microbial Biotechnology. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Microbial Biotechnology.

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Microbial Biotechnology Introduction

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