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Microbial Bioproducts

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# <u>Microbial Bioproducts Advances In Biochemical</u> <u>Engineering Biotechnology Vol 41</u>

K. M. Gothandam,Shivendu Ranjan,Nandita Dasgupta,Eric Lichtfouse

## **Microbial Bioproducts Advances In Biochemical Engineering Biotechnology Vol 41:**

Microbial Bioproducts G. P. Agarwal, 1990 *Environmental Biotechnology Vol. 3* K. M. Gothandam, Shivendu Ranjan, Nandita Dasgupta, Eric Lichtfouse, 2020-10-01 This volume is a collection of informative chapters on various subjects It provides information on the effects of pesticides on avian fauna the impact of microbial ecosystems to solve environmental problems a detailed review on issues in membrane distillations process microbial sensor for detection of pollutants microbial biosurfactants biotechnological applications of immobilised microalgae as well as a review on Biochar production Most importantly this book contains a critical review on microbial degradation of plastic wastes and highlights the Biodegradation and Bioremediation of Herbicides **Recombinant Microbes for Industrial and Agricultural Applications** Yoshikatsu Murooka, Tadayuki Imanaka, 2020-08-27 Bridging the gap between laboratory observations and industrial practices this work presents detailed information on recombinant micro organisms and their applications in industry and agriculture All recombinant microbes bacteria yeasts and fungi are covered The Chemistry of Bio-based Polymers Johannes Karl Fink, 2014-02-24 An exhaustive and timely overview of renewable polymers from a respected chemist and successful author The recent explosion of interdisciplinary research has fragmented the knowledge base surrounding renewable polymers The Chemistry of Bio based Polymers brings together in one volume the research and work of Professor Johannes Fink focusing on biopolymers that can be synthesized from renewable polymers After introducing general aspects of the field the book s subsequent chapters examine the chemistry of biodegradable polymeric types sorted by their chemical compounds including the synthesis of low molecular compounds Various categories of biopolymers are detailed including vinyl based polymers acid and lactone polymers ester and amide polymers carbohydrate related polymers and others Procedures for the preparation of biopolymers and biodegradable nanocomposites are arranged by chemical methods and in vitro biological methods with discussion of the issue of plastics from bacteria The factors influencing the degradation and biodegradation of polymers used in food packaging exposed to various environments are detailed at length The book covers the medical applications of bio based polymers concentrating on controlled drug delivery temporary prostheses and scaffolds for tissue engineering Professor Fink also addresses renewable resources for fabricating biofuels and argues for localized biorefineries as biomass feedstocks are more efficiently handled locally Audience The Chemistry of Bio based Polymers will be read by chemists polymer and materials scientists chemical bio based and biomedical engineers agricultural and environmental faculty and all those who work in the bioeconomy area This book will be critical for engineers in a number of industries including food packaging medical devices personal care fuels auto and construction International Books in Print, 1997 Subject Guide to Books in Print, 1997 Current Catalog National Library of Medicine (U.S.),1992 First multi year cumulation covers six years 1965 70 Bioinoculants: Biological Option for Mitigating global Climate Change Surender Singh,Radha Prasanna,Kumar Pranaw,2023-07-25 This edited book covers various bioinoculants for sustainable crop

production under the changing global climate The book envisages a compilation of articles relevant to the current status of production and use of novel microbial inoculants for different crops and highlights their role in mitigating global climate challenges These include nutrient deficiencies salinity drought and emerging pathogens In addition success stories and commercialization aspects are also discussed Growing environmental concerns related to climate change can potentially decrease the global yield capacity of agricultural systems Agricultural productivity is severely affected by major biotic and abiotic factors The phytomicrobiome plays a critical role in the survival of the holobiont particularly for plants growing in extreme environments The use of microbial based agricultural inputs has a long history beginning with a broad scale rhizobial inoculation of legumes in the early twentieth century Microbial inoculants are considered one of the best and most effective strategies for sustainable agriculture under climate change and a viable solution to meet the twin challenges of global food security and environmental sustainability It is therefore imperative to understand the current status and development in the area of bioinoculants from a global perspective The chapter s focus would be on major agro ecologies covering all major crops across the globe along with the commercialization status of different bioinoculants in different countries The book caters to the needs of the students faculty policymakers and researchers working in the area of microbiology biotechnology environmental sciences and botany National Library of Medicine Current Catalog Interfacial Phenomena and Bioproducts John Brash, 1996-08-16 Presents a National Library of Medicine (U.S.),1992 synopsis of the theoretical principles and practical experience concerning the interfacial behaviour of bioproducts The volume offers an interdisciplinary approach to the subject that highlights the importance of interfacial phenomena in bioprocessing systems and the tools used to study and interpret the phenomena It contains coverage ranging from fundamentals of bioproduct and solid surface structure to the interactions of multicomponent mixtures in heterogeneous

Biotechnology of Yeasts and Filamentous Fungi Andriy A. Sibirny,2017-06-12 This book provides a comprehensive overview on biotechnological applications of unicellular and multicellular fungi in a variety of industrial branches Targeted genetic and metabolic engineering of fungi allows production of native and transgenic enzymes and proteins in industrial scales Those most prominently find application in biorefineries for the production of value added chemicals and biofuels in the pharmaceutical industry as well as in biomedicine Each chapter is dedicated to applications and potential beneficial use of particular strains of yeasts and filamentous fungi and their produced biomolecules The book targets researchers from both academia and industry and graduate students working in microbial biotechnology <u>Bioproducts</u>,1986 **Biorefinery: A Sustainable Approach for the Production of Biomaterials, Biochemicals and Biofuels** Pranav D. Pathak,Sachin A. Mandavgane,2023-03-01 This book discusses recent trends and concepts in the field of biorefinery It discusses optimal and economic strategies for converting biomass to value added products to maximize profits with minimal environmental impact with a sustainability approach The chapters of the book are focused on the current technologies techno economical aspects

life cycle assessment and case studies The book is divided into three sections the first section presents strategies for the production of biofuels like bioethanol biomethane biohydrogen bio oil gasification etc from the biomass in a sustainable way The second sections review the extraction of bioactive chemicals phenolic antioxidants enzymes and carboxylic acid from the biomass residue The last section examines the utilization of biomass for the production of bioactive materials including biofertilizers bioadsorbents activated carbon nano materials and pigments This book explores the relation between biofuels and the sustainable development goals SDGs 7 Books in Print ,1991 Electrochemistry Volume 16 Craig Banks, Steven McIntosh, 2021-12-10 Providing the reader with an up to date digest of the most important current research carried out in the field this volume is compiled and written by leading experts from across the globe It reviews the trends in electrochemical sensing and its applications and touches on research areas from a diverse range including microbial electrosynthesis for bio based production using renewable electricity and recent advances in inorganic nanostructured materials for electrochemical water splitting The reviews of established and current interest in the field make this book a key reference for researchers in this exciting and developing area Advances in Food Bioproducts and Bioprocessing Technologies Monica Lizeth Chavez-Gonzalez, Nagamani Balagurusamy, Christobal N. Aguilar, 2019-10-16 The book explores and exploits the synergy and boundary between biotechnology bioprocessing and food engineering Divided into three parts Advances in Food Bioproducts and Bioprocessing Technologies includes contributions that deal with new developments in procedures bioproducts and bioprocesses that can be given quantitative expression Its 40 chapters will describe how research results can be used in engineering design include procedures to produce food additives and ingredients and discuss accounts of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies

**Statistical Treatment of Analytical Data** Zeev B. Alfassi,2009-02-12 Statistical techniques have assumed an integral role in both the interpretation and quality assessment of analytical results In this book the range of statistical methods available for such tasks are described in detail with the advantages and disadvantages of each technique clarified by use of examples With a focus on the essential practical application of these techniques the book also includes sufficient theory to facilitate understanding of the statistical principles involved Statistical Treatment of Analytical Data is written for professional analytical chemists in industry government and research institutions who require a practical understanding of the application of statistics in day to day activities in the analytical laboratory It is also for students who require further and detailed information that may not be available directly in a typical undergraduate course *Systems Metabolic Engineering* Christoph Wittmann, Sang Yup Lee, 2012-06-15 Systems Metabolic Engineering is changing the way microbial cell factories are designed and optimized for industrial production Integrating systems biology and biotechnology with new concepts from synthetic biology enables the global analysis and engineering of microorganisms and bioprocesses at super efficiency and versatility otherwise not accessible Without doubt systems metabolic engineering is a major driver towards bio based

production of chemicals materials and fuels from renewables and thus one of the core technologies of global green growth In this book Christoph Wittmann and Sang Yup Lee have assembled the world leaders on systems metabolic engineering and cover the full story from genomes and networks via discovery and design to industrial implementation practises This book is a comprehensive resource for students and researchers from academia and industry interested in systems metabolic engineering It provides us with the fundaments to targeted engineering of microbial cells for sustainable bio production and stimulates those who are interested to enter this exiting research field <u>Current Advances in Applied Microbiology &</u> <u>Biotechnology</u>,1997 <u>Subject Guide to Children's Books in Print 1997</u> Bowker Editorial Staff,R R Bowker Publishing,1996-09 This is likewise one of the factors by obtaining the soft documents of this **Microbial Bioproducts Advances In Biochemical Engineering Biotechnology Vol 41** by online. You might not require more era to spend to go to the book inauguration as without difficulty as search for them. In some cases, you likewise reach not discover the notice Microbial Bioproducts Advances In Biochemical Engineering Biotechnology Vol 41 that you are looking for. It will categorically squander the time.

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