

Microbiology Monographs

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Microorganisms in Biorefineries

 Springer

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Microbiology Staff



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Microorganisms in Biorefineries Birgit Kamm, 2014-11-27 The book describes how plant biomass can be used as renewable feedstock for producing and further processing various products Particular attention is given to microbial processes both for the digestion of biomass and the synthesis of platform chemicals biofuels and secondary products Topics covered include new metabolic pathways of microbes living on green plants and in silage using lignocellulosic hydrolysates for the production of polyhydroxyalkanoates fungi such as *Penicillium* as host for the production of heterologous proteins and enzymes bioconversion of sugar hydrolysates into lipids production of succinic acid lactones lactic acid and organic lactates using different bacteria species cellulose hydrolyzing bacteria in the production of biogas from plant biomass and isoprenoid compounds in engineered microbes

Biorefinery Juan-Rodrigo Bastidas-Oyanedel, Jens Ejbye Schmidt, 2019-04-15 This book discusses the biorefinery of biomass feedstocks In depth chapters highlight the scientific and technical aspects and present a techno economic analysis of such systems By using a TEA approach the authors present feasible pathways for the conversion of biomass both residual biomass energy crops and algae biomass showing the different possibilities for the production of biochemical materials biofuels and fertilizers The concepts presented in this book will link companies investors and governments by providing a framework that will help reduce pollutants and create a biomass related economy that incorporates the newest developments and technologies in the area

Terpene Synthases, 2024-06-28 *Terpene Synthases* Volume 700 in the *Methods in Enzymology* series continues the legacy of this highly respected laboratory standard with its first dedicated collection on this important family of enzymes Terpene synthases are a diverse set of enzymes that use exquisite mechanisms to form complex poly cyclic hydrocarbon skeletons Chapters in this new volume include Structural analysis by X ray crystallography and cryo EM Understanding mechanisms using stable isotopes substrate analogs or computational tools Engineering fusion enzymes Ancestral terpene cyclases as well as the Sequence structure and function of non canonical terpene synthases Presents the only collection of current methodology for the investigation of terpene synthases with topics including from bioinformatics enzymology computational chemistry and engineering Includes chapters authored by international experts in the field Provides the latest contributions in the leading serial *Methods in Enzymology*

Biofungicides: Eco-Safety and Future Trends Kamel A. Abd-El Salam, Mousa A. Alghuthaymi, Salah M. Abdel-Momen, 2023-12-01 The current volume focuses on novel sources of biofungicides primarily providing complete knowledge of microbial and phytochemical fungicides studying antifungal activity mechanisms as well as their role in disease management in plants and fungicide bioremediation The use of biofungicides as eco friendly alternative to typical synthetic fungicides is projected to play a significant role in organic farming in the future Key Features Discovers novel sources of biofungicides Describes the role of biofungicides in the control of plant diseases Studies antifungal activity mechanisms Explores how to survey and select promising biofungicides

Industrial Biotechnology Christoph Wittmann, James C.

Liao,2017-03-06 The latest volume in the Advanced Biotechnology series provides an overview of the main product classes and platform chemicals produced by biotechnological processes today with applications in the food healthcare and fine chemical industries Alongside the production of drugs and flavors as well as amino acids bio based monomers and polymers and biofuels basic insights are also given as to the biotechnological processes yielding such products and how large scale production may be enabled and improved Of interest to biotechnologists bio and chemical engineers as well as those working in the biotechnological chemical and food industries **Valorization of Biomass to Value-Added Commodities** Michael O. Daramola,Augustine O. Ayeni,2020-04-21 This book presents the most up to date technologies for the transformation of biomass into valuable fuels chemicals materials and products It provides comprehensive coverage of the characterization and fractionation of various types of biomass and details the many challenges that are currently encountered during this process Divided into two sections this book discusses timely topics such as the characterization of biomass feedstock pretreatment and fractionation of biomass and describes the process for conversion of biomass to value added commodities The authors bring biomass transformational strategies that are yet to be explored to the forefront making this innovative book useful for graduate students and researchers in academia government and industry **Sustainable Biotechnology- Enzymatic Resources of Renewable Energy** Om V. Singh,Anuj K. Chandel,2018-08-25 Nature offers abundant renewable resources that can be used to partially replace fossil fuels and commodity chemicals but issues of cost technology readiness levels and compatibility with existing distribution networks remain huge challenges Cellulosic ethanol and biodiesel are the most immediately obvious target fuels with hydrogen methane and butanol as other potentially viable products This book continues to bridge the technology gap and focus on critical aspects of lignocellulosic biomolecules and the respective mechanisms regulating their bioconversion to liquid fuels into energy and value added products of industrial significance This book is a collection of reviews elucidating several broad ranging areas of progress and challenges in the utilization of sustainable resources of renewable energy especially in biofuels This book comes just at a time when government and industries are accelerating their efforts in the exploration of alternative energy resources with expectations of the establishment of long term sustainable alternatives to petroleum based liquid fuels Apart from liquid fuel this book also emphasizes the use of sustainable resources for value added products which may help in revitalizing the biotechnology industry at a broader scale This book also provides a comprehensive review of basic literature and advance research methodologies to graduate students studying environmental microbiology chemical engineering bio economy and microbial biotechnology *Continuous Culture* P. Kyslik,1988 This is a research level symposium proceedings reviewing the latest research in the continuous culture of microorganisms as applied to industrial microbiology biotechnology waste disposal and the food and pharmaceutical industries Biochemical physiological genetic aspects of continuous culture are presented as well as practical applications Environmental Regulation of Microbial Metabolism I. S. Kulaev,E. A. Dawes,D. W.

Tempest,2014-05-12 Environmental Regulation of Microbial Metabolism contains the proceedings of the Federation of European Microbiological Societies Symposium held in Pushchino USSR on June 1 7 1983 The symposium provided a forum for reviewing the environmental regulation of the metabolism of autotrophic and heterotrophic microorganisms regulation of the biogenesis of cell walls and other structures in prokaryotic and eukaryotic microorganisms and regulation of the secretion of macromolecules and transport of ions and solutes across microbial membranes Comprised of 52 chapters this book begins with an overview of some aspects of environmental regulation of microbial phosphorus metabolism followed by a discussion on the role of covalent interconversion of enzymes in the regulation of microbial metabolism Subsequent chapters explore the role and regulation of inorganic pyrophosphatase in bacteria the central metabolism of pseudomonads degrading xenobiotics the role of nickel enzymes in anaerobic metabolism and the oxidation of aromatic compounds by microalgae The book also considers carbon metabolism in phototrophic bacteria under different conditions of growth along with the transport of solutes and metabolites in prokaryotes and eukaryotes This monograph will be helpful to a wide range of specialists in the fields of biochemistry physiology molecular biology and biotechnology *Industrial Applications of Microbiology* Jacques Rivière,1977 *Continuous Cultivation of Microorganisms* I. Malek,2012-12-02 Continuous Cultivation of Microorganisms deals with research studies on the continuous processes in cultivation and their applications in industrial production Divided into 40 chapters the book is composed of contributions of authors who have conducted extensive studies on continuous cultivation The discussions start with situations and trends in the advancement of continuous cultivation multi stage continuous culture the theory of multi stage continuous cultures and a stochastic model of continuous cultivation of microorganisms in several vessels This discussion is followed by the presentation of the theory of continuous fermentation the use of continuous culture method for analyzing cell functions and a comparative study of cell mass production in a single and multistage cultivation The book goes further with discussions on soil microbiology and the processes and environments involved in the culture of bacteria The text also presents the fermentation processes of beer lactic acid alcohol and liquor The discussions are supported by methods experiments and numerical representations The book also discusses electronic programs or automatic controls involved in fermentation processes The selection is a vital source of data for those who are interested in conducting research on continuous cultivation **Industrial Applications of Microbiology** Neelima Rajvaidya,2006 **Bioactive Microbial Products 2** L. J. Nisbet,D. J. Winstanley,Society for General Microbiology,1983 **Biofilms** William G. Characklis,Kevin Marshall,1990-01-16 A state of the art review of biofilm science and technology incorporating approaches from microbiology physical chemistry environmental engineering and chemical engineering The book describes the physical and chemical properties of biofilms and the processes by which they accumulate Microbial Physiology for Biotechnological Innovation ,1987 **Microbial Activities** I. N. Gogotov,1983-10 *Microbial Production of Industrial Chemicals [Bibliography and Price Not Definite.]* Microbiology Staff,2008 Plant derived sugars and lignocellulosic

biomass are considered feasible renewable alternatives to the use of petroleum as an industrial feedstock In this scenario the production of compounds currently generated from petroleum will depend on efficient microbial catalysts This written symposium contains papers from leading research groups which together provide an overview of novel strategies to overcome problems regarding the microbial production of industrial chemicals and fuels In these papers the authors describe metabolic engineering strategies and fermentation technology alternatives for the production of chemicals like lactic acid succinic acid acetic acid ethanol and polyhydroxyalkanoates in *Escherichia coli* Examples are also presented on how metabolic engineering enables improvement of *Saccharomyces cerevisiae* strains in the production of bulk chemicals for pharmaceutical food and industrial applications The material presented in this issue will provide a framework for bringing us closer to a future in which technology will be cleaner and more sustainable **Microbial Engineering Z.**

Sterbacek, 2016-04-20 Microbial Engineering is a collection of invited lectures presented at the First International Symposium on Advances in Microbial Engineering held in Mariánské Lázně Czechoslovakia from August 28 to September 1 1972 Contributors explore significant developments in the field of microbial engineering and cover topics ranging from the role of microbial films in fermentation and fundamentals of fermenter design to aeration and agitation in antibiotic fermentations kinetics of hydrolase production by microorganisms and kinetics of product synthesis in continuous alcoholic fermentation This book is comprised of nine chapters and begins by introducing the reader to the role of microbial films in fermentation with emphasis on the mechanism of microbial adhesion as well as the important characteristics of the surfaces and the microorganisms The next chapter examines the effects of environmental macro conditions and those on the cell level in relation to heat and mass transfer in microbial systems The discussion then turns to the self regulating mechanisms in bacterial cells methods used to disintegrate cells to release unstable substances and the influence of environmental factors on the kinetics of biosynthetic processes A method for controlling aeration and agitation in the course of antibiotic fermentation is also described The final chapter presents the results of experiments that investigated the continuous production of ethyl alcohol using starchy materials converted to hexoses by externally formed enzymes This text will be of interest to microbiologists and biochemists as well as researchers in pure and applied chemistry Sustainable Microbial Technologies for Valorization of Agro-Industrial Wastes Jitendra Kumar Saini, 2022-09-30 This book provides an overview of the different aspects of microbial bioconversion methodologies for valorization of underutilized wastes of varied nature It covers microbiological biotechnological aspects environmental concerns bioprocess development scale up aspects challenges and opportunities in microbial valorization at commercial scale It explains sustainable microbiological processes for bioconversion and valorization of the wastes for production of various products of commercial interests including biofuels bioenergy and other platform chemicals Features Presents potential biotechnological topics and strategies for the valuation of agricultural waste materials Provides technical concepts on the production of various commercially significant bio

products Introduces various microbial bioprocesses to sustainably valorize various potential wastes as renewable feedstocks for production of biofuels and biochemicals Explores the relevant scale up opportunities commercialization aspects and critical technological advances Explains concepts and recent trends in life cycle analyses in waste valorization This book aims at Researchers and Graduate students in Bioengineering Biochemical engineering Microbial Technology Microbiology Environmental Engineering Biotechnology *Microbes in Energy Conversion and Conservation* Australian Society for Microbiology, A. G. Lane, 1979

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