

Solid-State Fermentation in Biotechnology

Fundamentals and Applications

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Solidstate Fermentation In Biotechnology Fundamentals And Applications

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Solidstate Fermentation In Biotechnology Fundamentals And Applications:

Solid-state Fermentation in Biotechnology Ashok Pandey,2001 This book complements others in biotechnology especially in industrialmicrobiology biotechnology It has been written with a research andacademic readership in mind but will prove equally beneficial to theprocess technologists and scientists working in biotechnology basedbusiness and industries large and small The chapters include theinformation and facts based on the practically applicable knowledgegathered from up to date complete research published on the subjectand related topics The contents of each chapter deal with How to asopposed to a Review of Literature with citation of a large number ofnon applicable references *Current Developments in Solid-state*

Fermentation Ashok Pandey,Carlos Ricardo Soccol,Christian Larroche,2008-09-16 Over the period of last two decades there has been significant resurgence in solid state fermentation due to the numerous benefits it offers especially in the engineering and environmental aspects SSF has shown much promise in the development of several bioprocesses and products This resurgence gained further momentum during the last 5 6 years with the developments in fundamental and applied aspects A good deal of information has been generated in published literature and patented information Several commercial ventures have come up based on SSF in different parts of the world The contents are organized into four parts Part 1 deals with the General and Fundamentals aspects of SSF Part 2 deals with the production of bulk chemicals and products such as enzymes organic acids spores and mushrooms in SSF Part 3 is on the use of SSF for specialty chemicals such as gibberellic acid antibiotics and other pharmaceutically valuable secondary metabolites pigments and aroma compounds Part 4 deals with the use of SSF miscellaneous application such as SSF for food and feed applications agro industrial residues as substrates in SSF and the production of silage and vermicompost **Solid State Fermentation for**

Foods and Beverages Jian Chen,Yang Zhu,2013-11-23 Although one of the oldest microbial technologies used in food processing solid state fermentation SSF had until recently fallen out of favor However based on a series of established mathematical models new design concepts for SSF bioreactors and process control strategies have been proposed allowing SSF technology to reach new levels Solid State Fermentation for Foods and Beverages covers these new technologies and their application to food and beverage production The book systematically describes the production of solid state fermented food and beverage in terms of the history and development of SSF technology and SSF foods bio reactor design fermentation process various substrate origins and sustainable development It emphasizes Oriental traditional foods produced by SSF such as sufu vinegar soy sauce Chinese distilled spirit and rice wine The authors address such engineering issues as mass and heat transfer and energy equation calculation of solid state fermentation dynamic modeling of solid state fermentation and process control of solid state fermentation Covering the latest developments and achievements in the field of SSF the book provides a detailed introduction to various solid state fermented foods and beverages including product category characteristics functionalities safety issues and consumer perception It explores real advantages of SSF processes and how

their application at real scale for high quality production that is more and less costly

Biotechnology for Agro-Industrial Residues Utilisation Poonam Singh-Nee Nigam, Ashok Pandey, 2009-05-19 Residues from agriculture and the food industry consist of many and varied wastes in total accounting for over 250 million tonnes of waste per year in the UK alone Biotechnological processing of these residues would allow these waste products to be used as a resource with tremendous potential An extensive range of valuable and usable products can be recovered from what was previously considered waste including fuels feeds and pharmaceutical products In this way Biotechnology can offer many viable alternatives to the disposal of agricultural waste producing several new products in the process This book presents up to date information on a biotechnology approach for the utilisation of agro industrial residues presenting chapters with detailed information on materials and bioconversion technology to obtain products of economic importance The production of industrial products using agro industrial residues as substrates The biotechnological potential of agro industrial residues for bioprocesses Enzymes degrading agro industrial residues and their production Bioconversion of agro industrial residues Written by experts in Biotechnological processing of Agro Industrial Residues this book will provide useful information for academic researchers and industry scientists working in biotechnology waste management agriculture and the food industry

Food Biotechnology Anthony Pometto, Kalidas Shetty, Gopinadhan Paliyath, Robert E. Levin, 2005-10-11 Revised and updated to reflect the latest research and advances available Food Biotechnology Second Edition demonstrates the effect that biotechnology has on food production and processing It is an authoritative and exhaustive compilation that discusses the bioconversion of raw food materials to processed products the improvement of food quality the importance of food safety the design of ingredients for functional foods and the biochemical advances made in traditional fermentation It also provides an international perspective on the discipline as a whole The content of the book is divided into three sections for easy reference The first section provides an overview of the basic principles and explains microbial applications The next section explains plant tissue culture techniques genetic engineering of plants and animals functional food ingredients and their health benefits probiotics antibody production for oral vaccines and topics on enzyme technologies The final section discusses food safety issues and the various bio processing and fermentation biotechnologies used throughout the world Food Biotechnology Second Edition is an indispensable guide for anyone who needs to understand the latest information on food production and processing from a biotechnology perspective

Biotechnology in the Chemical Industry Pratima Bajpai, 2019-11-08

Biotechnology in the Chemical Industry Towards a Green and Sustainable Future focuses on achievements and prospects for biotechnology in sustainable production of goods and services especially those that are derived at present mostly from the traditional chemical industry It considers the future impact of industrial biotechnology and lays out the major research areas which must be addressed to move from a flourishing set of scientific disciplines to a major contributor to a successful future knowledge based economy The book focuses on the research needed to underpin three broad topics biomass bio processes

and bio products including bio energy Readers including advanced students researchers industry professionals academics analysts consultants and anyone else interested or involved in biotechnology will find this book very informative Offers a comprehensive introduction to the subject for researchers interested in the biotechnological applications in chemical industry Provides a state of the art update on the field Presents the economic and ecological advantages of industrial biotechnology Discusses efforts made by developing countries towards industrial biotechnology Describes new biotechnological applications Includes the major challenges facing industrial biotechnology Data Acquisition Applications Zdravko Karakehayov,2012-08-23 Data acquisition systems have numerous applications This book has a total of 13 chapters and is divided into three sections Industrial applications Medical applications and Scientific experiments The chapters are written by experts from around the world while the targeted audience for this book includes professionals who are designers or researchers in the field of data acquisition systems Faculty members and graduate students could also benefit from the book **Biocontrol Systems and Plant Physiology in Modern Agriculture** Romeo Rojas,Guillermo Cristian Guadalupe Martínez Ávila,Juan Antonio Vidales Contreras,Cristóbal Noé Aguilar,2022-09-22 Biocontrol Systems and Plant Physiology in Modern Agriculture Processes Strategies Innovations focuses on new production alternatives that do not include pesticides herbicides or chemicals for primary food production and instead rely on biologically controlled systems of production The book also relates a number of advances and innovations in the use of agricultural technologies that employ the study of the physiology of plants to know their resistance to different environments in modern agriculture The book presents research offering viable alternatives for the control of pests for safe food production that are environmentally friendly and that facilitate the reduction of production costs and improve the quality and yield of produce The volume addresses innovative biocontrol systems to reduce or eliminate the use of agrochemicals by controlling plant diseases by minimizing environmental damage through the use of antagonistic organisms It also presents new strategies of cultivation that maximize production by optimizing light temperature humidity nutrients and humidity in a controlled environment The diverse topics in the volume include botanical compounds as adjuvants as an alternative to reduce the pesticide use on site production of bio control agents plant factory systems that offer controlled safe environments for plant cultivation promising bio nematicides for sustainable agriculture wastewater reclamation for agricultural purposes the recovery of phytochemicals from plants using LED lights on plants and microgreens production and much more Covering the new trends in biological control plant factories and plant metabolism for application in modern agriculture this volume provides important research and knowledge that facilitates environmentally friendly plant systems advances the reduction of production costs and improves the quality and yield of produce *Solid-State Fermentation Bioreactors* David A. Mitchell,Nadia Krieger,Marin Berovic,2006-08-02 This concise professional reference provides a fundamental framework for the design and operation of solid state fermentation bioreactors enabling researchers currently working at laboratory scale to scale up their processes The authors

survey bioreactor types in common use and describe in depth how to plan a project and model heat transfer phenomena The book includes case studies and a review of practical issues involved in bioreactor performance **Advances in the Domain of Environmental Biotechnology** Naga Raju Maddela,Luz C García Cruzatty,Sagnik Chakraborty,2021-01-04 This book complies latest advancement in the field of environmental biotechnology It focuses on topics that comprises industrial environment and agricultural related issues to microbiological studies and exhibits correlation between biological world and dependence of humans on it It is designed into three sections covering the role of environmental biotechnology in industry environmental remediation and agriculture Ranging from micro scale studies to macro it covers up a huge domain of environmental biotechnology Overall the book portrays the importance of modern biotechnology technologies in solving the problems in modern day life The book is a ready reference for practicing students researchers of biotechnology environmental engineering chemical engineering and other allied fields likewise Fermentation Processes Engineering in the Food Industry Carlos Ricardo Soccol,Ashok Pandey,Christian Larroche,2013-03-27 With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology fermentation technology for industrial applications has developed enormously in recent years Reflecting these advances Fermentation Processes Engineering in the Food Industry explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors The book describes the benefits of fermented foods in human health in both dairy and non dairy products and beverages It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients Exploring a host of important topics in engineering fermentation processes the book covers topics such as Methods and techniques for the isolation improvement and preservation of the microbial cultures used in the food fermentation industry The fundamentals of fermentation processes modes of fermentation and the principles of upstream operation Physical and chemicals factors that affect fermentation processes Different types of fermenters employed in submerged and solid state fermentation Unitary operations for solid liquid separation concentration and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied An essential reference for all food sector professionals this volume surveys critical trends in the food beverage and additive industry and explores the sustainability of these processes **Microbial Enzymes: Roles and Applications in Industries** Naveen Kumar Arora,Jitendra Mishra,Vaibhav Mishra,2020-04-28 Microbial Enzymes Roles and applications in industry offers an essential update on the field of microbial biotechnology and presents the latest information on a range of microbial enzymes such as fructosyltransferase laccases amylases lipase and cholesterol oxidase as well as their potential applications in various industries Production and optimisation technologies for several industrially relevant microbial enzymes are also addressed In

recent years genetic engineering has opened up new possibilities for redesigning microbial enzymes that are useful in multiple industries an aspect that the book explores In addition it demonstrates how some of the emerging issues in the fields of agriculture environment and human health can be resolved with the aid of green technologies based on microbial enzymes The topics covered here will not only provide a better understanding of the commercial applications of microbial enzymes but also outline futuristic approaches to use microbial enzymes as driver of industrial sustainability Lastly the book is intended to provide readers with an overview of recent applications of microbial enzymes in various industrial sectors and to pique researchers interest in the development of novel microbial enzyme technologies to meet the changing needs of industry

Handbook of Food Products Manufacturing, 2 Volume Set Nirmal K. Sinha,2007-04-27 The Handbook of Food Products Manufacturing is a definitive master reference providing an overview of food manufacturing in general and then covering the processing and manufacturing of more than 100 of the most common food products With editors and contributors from 24 countries in North America Europe and Asia this guide provides international expertise and a truly global perspective on food manufacturing

Microbial Enzyme Technology in Food Applications Ramesh C. Ray,Cristina M. Rosell,2017-03-27 The aim of food processing is to produce food that is palatable and tastes good extend its shelf life increase the variety and maintain the nutritional and healthcare quality of food To achieve favorable processing conditions and for the safety of the food to be consumed use of food grade microbial enzymes or microbes being the natural biocatalysts is imperative This book discusses the uses of enzymes in conventional and non conventional food and beverage processing as well as in dairy processing brewing bakery and wine making Apart from conventional uses the development of bioprocessing tools and techniques have significantly expanded the potential for extensive application of enzymes such as in production of bioactive peptides oligosaccharides and lipids flavor and colorants Some of these developments include extended use of the biocatalysts as immobilized encapsulated enzymes microbes both natural and genetically modified as sources for bulk enzymes solid state fermentation technology for enzyme production Extremophiles and marine microorganisms are another source of food grade enzymes The book throws light on potential applications of microbial enzymes to expand the base of food processing industries

Waste to Renewable Biohydrogen Quanguo Zhang,Chao He,Jingzheng Ren,Michael Evan Goodsite,2021-04-22 Waste to Renewable Biohydrogen Volume 1 Advances in Theory and Experiments provides a comprehensive overview of the advances processes and technologies for waste treatment to hydrogen production It introduces and compares the most widely adopted and most promising technologies such as dark fermentation thermochemical and photosynthetic processes In this part potential estimation feasibility analysis feedstock pretreatment advanced waste to biohydrogen processes and each individual systems element are examined The book delves into the theoretical and experimental studies for the design and optimization of different waste to biohydrogen processes and systems Covering several advanced waste to biohydrogen pretreatment and production processes this book investigates the future trends and the promising pathways for biohydrogen

production from waste Discusses the potential feasibility progress challenges and prospect of waste to biohydrogen technologies Explores the most promising waste to biohydrogen technologies including dark fermentation thermochemical and photosynthetic processes Investigate the mechanisms and the effects of the influential factors on different waste to biohydrogen processes *Nanomaterials for Biocatalysis* Guillermo R. Castro,Ashok Kumar Nadda,Tuan Anh Nguyen,Xianghui Qi,Ghulam Yasin,2021-10-12 *Nanomaterials for Biocatalysis* explains the fundamental design concepts and emerging applications of nanoscale biocatalysts such as bioconversions bioelectronics biosensors biocomputing and therapeutic applications Nano biocatalysts refers to the incorporation of enzymes into nanomaterials These enzyme enhanced nanocarriers have many advantages including low mass transfer limitation high enzyme capacity better stabilization and the formation of single enzyme nanoparticles Smart nanocontainers have been developed for the smart release of their embedded active substances These smart releases can be obtained by using smart coatings as their outer nanoshells In addition these nanocontainers could protect the enzymes from chemical or metabolic alterations on their delivering pathways towards the target This is an important reference source for materials scientists and chemical engineers who want to know more about how nanomaterials are being used for biocatalysis applications Explains the major fabrication techniques and applications of nanobiocatalysts Shows how nanobiocatalysts are used in a variety of environmental and biomedical sectors Assesses the major challenges associated with the widespread manufacture of nanobiocatalysts **Microbial Diversity** T. Satyanarayana,2005 *Microbial Diversity Current Perspectives and Potential Applications* is woven around the recent global perceptions of microbial diversity Diverse perspectives are discussed in the context of ecosystem dynamics taking into consideration environments that are rather unique to microorganisms Considerable focus is placed on the role that microorganisms play in sustainable production systems The microbe plant interaction dynamic is highlighted in the discussion of mycorrhizal partners on which depends not only the plant community structure but also abatement of abiotic and biotic stresses Another mutualist rhizobia gets its due coverage whereas the plant disease component carries examples from both the perspective of fungal and viral diseases Considerable emphasis is placed on a discussion of the environmental issues such as the approaches that will lead to newer bioremediation technologies No discussion of microbial diversity is complete without their implications in animal and human health Discussed in this context are L arginases in cancer therapy as well as bioactives from cyanobacteria Genomics and pathogenicity of two groups of viruses viz blue tongue and flaviviruses is highlighted whereas keratinophilic fungal forms are discussed in the context of dermatophytic infections This volume also carries a fair number of articles on commercial microbiology *Chitosan for Biomaterials II* Rangasamy Jayakumar,M. Prabakaran,Riccardo A. A. Muzzarelli,2011-09-02 *Polymeric Bionanocomposites as Promising Materials for Controlled Drug* by M Prabakaran R Jayakumar *Chitosan and Chitosan Derivatives in Drug Delivery and Tissue Engineering* by R Riva H Ragelle A des Rieux N Duhem C J r me and V Pr at *Chitosan A Promising Biomaterial for Tissue Engineering*

Scaffolds by P K Dutta K Rinki and J Dutta Chitosan Based Biomaterials for Tissue Repair and Regeneration by X Liu L Ma Z Mao and C Gao Use of Chitosan as a Bioactive Implant Coating for Bone Implant Applications by M R Leedy H J Martin P A Norowski J A Jennings W O Haggard and J D Bumgardner New Techniques for Optimization of Surface Area and Porosity in Nanochitins and Nanochitosans by R A A Muzzarelli Production Properties and Applications of Fungal Cell Wall Polysaccharides Chitosan and Glucan by N New T Furuike and H Tamura Enzyme Technology Ashok Pandey, 2006-04-28
Publisher Description *Bioreactor Technology in Food Processing* Rosane F. Schwan, V. K. Joshi, Disney R. Dias, 2024-11-29
Bioreactor Technology in Food Processing brings peculiarities specificities and updates on bioreactors and bioprocesses related to food and beverage production The 26 chapters of this book are the result of the participation of more than 70 professionals including professors researchers and experts from the industrial sector from different countries around the world The chapters cover such topics as history classification scale up analytical tools and mathematical and kinetic models for the operation of bioreactors in the food industry In addition chapters detail the characteristics of bioreactors for the production of food bread cheese and coffee fermentation and fermented beverages beer wine distilled beverages and organic compounds such as enzymes acids aromas and pigments biocolorants among others Key Features Describes the basic and applied aspects of bioreactor in food processing Gathers information on bioreactors that is scattered in different journals and monographs as reviews and research articles Covers various types of bioreactors including stirred tank airlift photo bioreactor and disposable bioreactors Gives a broad overview of what exactly is involved in designing a bioreactor and optimizing its performance and finally their applications in the food processing industry The broad interdisciplinary approach of this book will certainly make your reading very interesting and we hope that it can contribute to knowledge and instigate creative thinking to overcome the challenges that food bioprocessing brings us

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