

Solid-State Fermentation in Biotechnology

Fundamentals and Applications

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Solidstate Fermentation In Biotechnology Fundamentals And Applications

**Anthony Pometto,Kalidas
Shetty,Gopinadhan Paliyath,Robert E.
Levin**

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

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 **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.

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

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

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

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 **Enzyme Technology**

Ashok Pandey,2006-04-28 Publisher Description

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