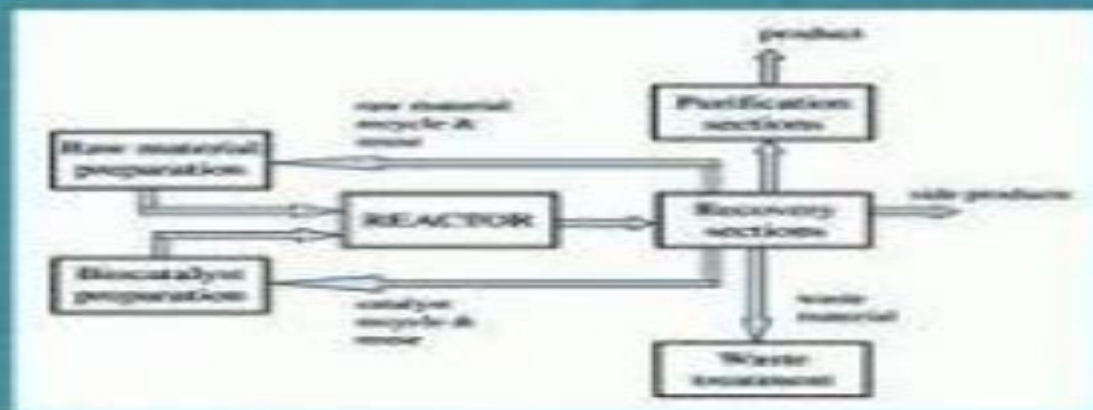


Biotransformations and Bioprocesses



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Biotransformation And Bioprocesses

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Berovic**



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Bioprocessing of Agri-Food Residues for Production of Bioproducts Adriana Carolina Flores-Gallegos, Rosa María Rodríguez-Jasso, Cristobal Noé Aguilar, 2021-09-30 This new volume presents original research and scientific advances in the field of the food bioprocessing bioproducts valorization of agricultural and food wastes microbiology and biotechnology It explores the most important advances in the valorization of agri food residues for the production of bioproducts and in the development of several bioprocessing strategies The authors place a special emphasis on the challenges that the industry faces in the era of sustainable development and aim to facilitate the reduction of food loss and waste This book demonstrates the potential and actual development and advances in the design and development of strategies and tools for the bioprocessing of agri food residues for the production of bioproducts Bioprocessing of Agri Food Residues for Production of Bioproducts covers aspects related to biotransformation of agri food residues such as mango seed citrus waste pomegranate husks nut shells melon peels leaves and grains cheese whey among others

Systems Biocatalysis for Bioprocess Design Roland Wohlgemuth, Jennifer Ann Littlechild, Byung-Gee Kim, 2022-12-02 Biotransformations: Bioremediation Technology for Health and Environmental Protection R.D. Stapleton Jr., V.P. Singh, 2002-03-13 This volume provides a clear understanding of how microbes following their degradative processes contribute maximally to the benefit of mankind through biotransformations of waste materials as well as a wide variety of health risk compounds The book contains twenty four chapters contributed by leading scientists from different parts of the world covering various aspects of bioremediation of xenobiotics such as toxic carcinogenic teratogenic and mutagenic compounds which include halogenated aromatics derivatives of heavy metals microbial toxins tannins dyes sulfur compounds of coal and petroleum and pesticides The bioremediation of agricultural residue industrial as well as municipal wastes fuel oils lubricants natural rubber products and other synthetic polymers which pollute the environment substantially also constitutes an important component of the book All biotechnological aspects of microbial transformations pertaining to biodegradation bioremediation of hazardous wastes ranging from screening methods for microbes with degradative potential processes of degradation strain improvement for enhanced biodegradation and elimination of xenobiotics of health and environmental concern have been dealt with The book intends to widen the scope of Applied Microbiology and Biotechnology in general and biotransformations in particular It will provide an opportunity for scientists in the areas of biochemistry food industry environmental science and engineering and their implications in technologically feasible environment friendly and economically viable bioremediation options Also it forms an interface between agro industrial establishments and the academic world and will generate new thought provoking ideas for scientists of future generations for the safeguard of both human and animal health as well as the environment

Development of Sustainable Bioprocesses Elmar Heinzle, Arno P. Biwer, Charles L. Cooney, 2007-01-11 Bioprocess technology involves the

combination of living matter whole organism or enzymes with nutrients under laboratory conditions to make a desired product within the pharmaceutical food cosmetics biotechnology fine chemicals and bulk chemicals sectors Industry is under increasing pressure to develop new processes that are both environmentally friendly and cost effective and this can be achieved by taking a fresh look at process development namely by combining modern process modeling techniques with sustainability assessment methods Development of Sustainable Bioprocesses Modeling and Assessment describes methodologies and supporting case studies for the evolution and implementation of sustainable bioprocesses Practical and industry focused the book begins with an introduction to the bioprocess industries and development procedures Bioprocesses and bioproducts are then introduced together with a description of the unit operations involved Modeling procedures a key feature of the book are covered in chapter 3 prior to an overview of the key sustainability assessment methods in use environmental economic and societal The second part of the book is devoted to case studies which cover the development of bioprocesses in the pharmaceutical food fine chemicals cosmetics and bulk chemicals industries Some selected case studies include citric acid biopolymers antibiotics biopharmaceuticals Supplementary material provides hands on materials so that the techniques can be put into practice These materials include a demo version of SuperPro Designer software used in process engineering and models of all featured case studies excel sheets of assessment methods Monte Carlo simulations and exercises Previously available on CD ROM the supplementary material can now be accessed via <http://booksupport.wiley.com> by entering the author name book title or isbn and clicking on the desired entry This will then give a listing of all the content available for download Please read any text files before downloading material

Industrial Biotransformations Andreas Liese, Karsten Seelbach, Christian Wandrey, 2006-08-21 The completely revised second edition of this user friendly and application oriented overview of one step biotransformations of industrial importance Based on extensive literature and patent research this book is unique in arranging each process in a systematic way to allow for easy comparison All the chapters have been rewritten with all the processes updated and more than 30 new processes added Each set of data is accompanied by key literature citations supported by flow sheets where available reduced to their significant elements In addition an extensive index classified by substrates products enzymes and companies provides direct access to each process organized according to enzyme class Biotechnologists biochemists microbiologists process engineers and those working in the chemical and biotechnological industries will find here all the significant parameters characterizing both the biotransformation and the process

Physiological Stress Responses in Bioprocesses Sven-Olof Enfors, 2004-05-06 This review series covers trends in modern biotechnology All aspects of this interdisciplinary technology where knowledge methods and expertise are required from chemistry biochemistry microbiology genetics chemical engineering and computer science are treated Electronic version available at <http://link.springer.de/series/abe>

Optimization and Applicability of Bioprocesses Hemant J. Purohit, Vipin Chandra Kalia, Atul N. Vaidya, Anshuman A. Khardenavis, 2018-01-02 This book argues

that the sustainable management of resources requires a systematic approach that primarily involves the integration of green innovative biotechnological strategies and eco engineering It discusses how microbial community intelligence can be used for waste management and bio remediation and explains how biological processes can be optimized by integrating genomics tools to provide perspectives on sustainable development The book describes the application of modern molecular techniques such as fluorescence in situ hybridization FISH highly sensitive catalyzed reporter deposition CARD FISH in situ DNA hybridization chain reaction HCR and methods for detecting mRNA and or functional genes to optimize bioprocesses These techniques supplemented with metagenomic analysis reveal that a large proportion of micro organisms still remain to be identified and also that they play a vital role in establishing bioprocesses *Microbial Bioprocessing of Agri-food Wastes* Gustavo Molina,Zeba Usmani,Minaxi Sharma,Rachid Benhida,Ramesh Chander Kuhad,Vijai Kumar Gupta,2023-04-28 Food ingredients are important molecules of the most diverse chemical classes responsible for conferring nutrition stability color flavor rheological and sensorial characteristics in addition to several other important uses in the food industry In this way the production routes of these ingredients have gained more and more attention from consumers and producing industries who expect that in addition to their technological properties these ingredients are still obtained without synthetic means with savings of natural resources and mainly with less environmental impact This book is intended for bioengineers biologists biochemists biotechnologists microbiologists food technologists enzymologists and related professionals researchers Explores recent advances in the valorization of agri food waste into food ingredients Provides technical concepts on the production of various food ingredients of commercial interest Explores novel technologically advanced strategies for the extraction of bioactive compounds from food wastes Presents important classes of food ingredients obtained from alternative raw materials Presents sustainable food waste resources and management strategies Presents different pretreatment technologies and green extraction methodologies to support a green environment in the circular economy concept Challenges in applications of re derived bioactive compounds from food wastes in food formulations **Recent Advances in Bioprocess Engineering and Bioreactor Design** Swasti Dhagat,Satya Eswari Jujjavarapu,N.S. Sampath Kumar,Chinmaya Mahapatra,2024-05-13 This book provides insights into the recent developments in the field of bioprocess technology and bioreactor design Bioprocess engineering or biochemical engineering is a subcomponent of chemical engineering which encompasses designing and developing those processes and equipment that are required for the manufacturing of products from biological materials and sources such as agriculture pharmaceutical chemicals polymers food etc or for the treatment of environmental process for example waste water The main focus of this book is to highlight the advancements in the field of bioprocess technology and bioreactor design The book is divided into various chapters briefing all aspects of bioprocess engineering and focusing on the advances in bioprocess engineering The book summarizes introduction to bioprocess technology and microbiology isolation and maintenance of microbial strains and sterilization techniques for advanced level

students and researchers Different models depicting kinetics of microbial growth substrate consumption and product formation are discussed The applications of enzymes have increased tremendously and therefore understanding their metabolic pathways to increase yields is also briefly discussed The calculations of mass and energy balances associated with entropy changes and free energy This book also covers the approaches for handling different types of cell cultures and current advancements in the area of bioprocess strategies for different culture types which scientists and researchers working in the different cell cultures can refer to The downstream processing of various industrially important products is also a part of this book Apart from that the process economics which ensures the feasibility and quality of any biological process is also dealt with as the last section of the book

Drug Discovery in Africa Kelly Chibale, Mike Davies-Coleman, Collen Masimirembwa, 2012-08-09 Drug discovery originating in Africa has the potential to provide significantly improved treatment of endemic diseases such as malaria tuberculosis and HIV AIDS This book critically reviews the current status of drug discovery research and development in Africa for diseases that are a major threat to the health of people living in Africa Compiled by leading African and international experts this book presents the science and strategies of modern drug discovery It explores how the use of natural products and traditional medicines can benefit from conventional drug discovery approaches and proposes solutions to current technological infrastructural human resources and economic challenges which are presented when attempting to engage in full scale drug discovery Topics addressed are varied from African medicinal plants to marine bioprospecting pharmacogenetics and the use of nanotechnology This book brings together for the first time a collection of strategies and techniques that need to be considered when developing drugs in an African setting It is an unprecedented and truly international effort highlighting the remarkable effort made so far in the area of drug discovery research by African scientists and scientists from other parts of the world working on African health problems

An Introduction to Metabolic and Cellular Engineering Sonia Cortassa, 2002 Metabolic and cellular engineering is a powerful alliance of two technologies genetics molecular biology and fermentation technology

BIOTECHNOLOGY - Volume IV Horst W. Doelle, J. Stefan Rokem, Marin Berovic, 2009-11-16 This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biotechnology draws on the pure biological sciences genetics animal cell culture molecular biology microbiology biochemistry embryology cell biology and in many instances is also dependent on knowledge and methods from outside the sphere of biology chemical engineering bioprocess engineering information technology biorobotics This 15 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the field and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Iron Ores Bioprocessing Mingming Zhang, 2022-10-19 This

book describes leading research in bioengineering for development of novel technologies for ferrous metal extraction The author includes new developments in molecular biology biochemistry microbiology cell metabolism and engineering principles and applies them to the conventional iron ore industry proposing innovative solutions to various industry challenges The book focuses on applied approaches and describes emerging and established industrial processes as well as the underlying theory of the process and the biology of the microorganisms involved Elaborates on bioprocessing technologies applicable for extraction of ferrous metals using cross pollination of microbiology and extractive metallurgy Presents a systematic overview of bioprocessing technologies encompassing laboratory research pilot scale studies and industrial process flowsheet design Provides comprehensive coverage of the engineering principles behind bioprocesses of iron ores including material and energy balances transport processes reactions and reactor engineering

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