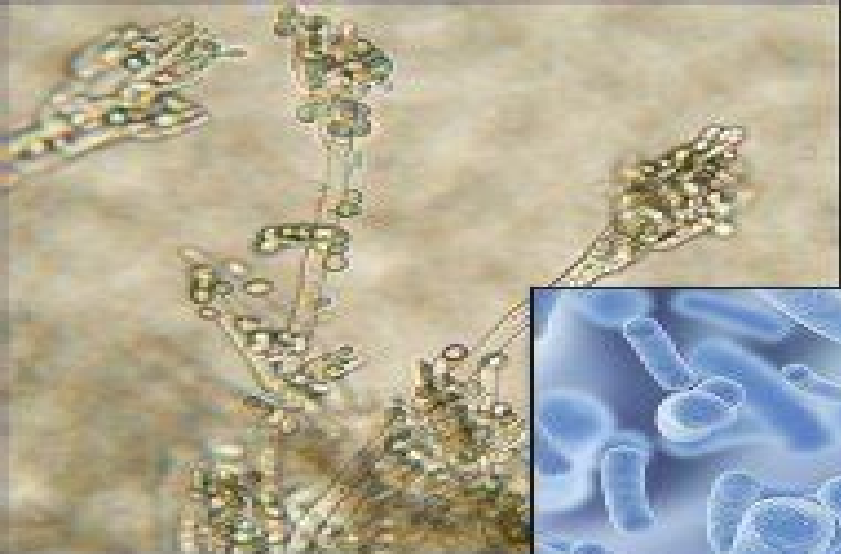
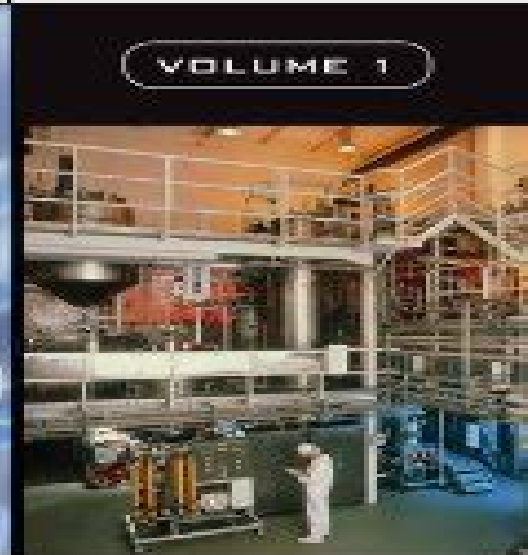




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**Exploring the Growing Role of Cyanobacteria in Industrial Biotechnology and Sustainability** David John Lea-Smith, Tina Summerfield, Daniel Ducat, Xuefeng Lu, Alistair McCormick, Saul Purton, 2021-09-14 **Downstream Industrial Biotechnology** Michael C. Flickinger, 2013-07-17 DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY An affordable easily accessible desk reference on biomanufacturing focused on downstream recovery and purification Advances in the fundamental knowledge surrounding biotechnology novel materials and advanced engineering approaches continue to be translated into bioprocesses that bring new products to market at a significantly faster pace than most other industries Industrial scale biotechnology and new manufacturing methods are revolutionizing medicine environmental monitoring and remediation consumer products food production agriculture and forestry and continue to be a major area of research The downstream stage in industrial biotechnology refers to recovery isolation and purification of the microbial products from cell debris processing medium and contaminating biomolecules from the upstream process into a finished product such as biopharmaceuticals and vaccines Downstream process design has the greatest impact on overall biomanufacturing cost because not only does the biochemistry of different products e g peptides proteins hormones antibiotics and complex antigens dictate different methods for the isolation and purification of these products but contaminating byproducts can also reduce overall process yield and may have serious consequences on clinical safety and efficacy Therefore downstream separation scientists and engineers are continually seeking to eliminate or combine unit operations to minimize the number of process steps in order to maximize product recovery at a specified concentration and purity Based on Wiley's Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology this volume features fifty articles that provide information on down stream recovery of cells and protein capture process development and facility design equipment PAT in downstream processes downstream cGMP operations and regulatory compliance It covers Cell wall disruption and lysis Cell recovery by centrifugation and filtration Large scale protein chromatography Scale down of biopharmaceutical purification operations Lipopolysaccharide removal Porous media in biotechnology Equipment used in industrial protein purification Affinity chromatography Antibody purification monoclonal and polyclonal Protein aggregation precipitation and crystallization Freeze drying of biopharmaceuticals Biopharmaceutical facility design and validation Pharmaceutical

bioburden testing Regulatory requirements Ideal for graduate and advanced undergraduate courses on biomanufacturing biochemical engineering biopharmaceutical facility design biochemistry industrial microbiology gene expression technology and cell culture technology Downstream Industrial Biotechnology is also a highly recommended resource for industry professionals and libraries *Medicinal Plant Biotechnology, 2 Volume Set* Oliver Kayser, Wim J. Quax, 2007 This unique overview of plants and transgenic techniques of great scientific medicinal and economic value for both industry and academia covers the whole spectrum from cell culture techniques via genetic engineering and secondary product metabolism right up to the use of transgenic plants for the production of bioactive compounds Practical examples are given throughout including the production of cancer therapeutics functional food and flavor compounds in plants Of particular interest to the pharmaceutical and biotechnological industries as well as medicinal chemists biochemists and molecular biologists

*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 Enzymes** Dinesh Yadav, Pankaj Chowdhary, Gautam Anand, Rajarshi Kumar Gaur, 2024-10-17 Comprehensive discussion of production and purification strategies for microbial enzymes important to various industries from food and beverages to pharmaceuticals Microbial Enzymes provides expert insight into diverse aspects of microbial enzymes highlighting strategies for their production purification and manipulation elucidating eco friendly industrial applications and discussing several production processes such as the production of cellulose and non synthetic indigo dye This book emphasizes recent technological interventions in microbial enzyme technology like metagenomics system biology molecular biology genomics directed evolution and bioinformatics The important microbial enzymes highlighted in this book include xylanases ureases methane monooxygenase polyhydroxyalkanoates pectinases peroxidases L rhamnosidase alkane hydroxylases laccases proteases gallic acid decarboxylase chitinases beta glucosidase lipases inulinases tannase mycozyme ACC deaminase ligninolytic enzymes and many more Novel treatment methods involving strains of microorganisms with desirable properties applicable in the process of bioremediation through mitigating climate concern increasing green production technology improving agriculture productivity and providing a means of earning a livelihood are discussed Readers will also gain state of the art background knowledge on existing technologies and their current challenges and future prospects Contributed to by leading experts in the field and edited by four highly qualified academics Microbial Enzymes explores important topics including Strategies for the discovery and enhancement of enzyme function and potentials of system biology to better understand the kinetics of industrially important enzymes Production and therapeutic applications of monoclonal antibodies in cancer and other diseases and characterization of tannase as a virulence factor

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**The Metabolic Pathway Engineering Handbook, Two Volume Set** Christina Smolke, 2009-08-18 Christina Smolke who recently developed a novel way to churn out large quantities of drugs from genetically modified brewer's yeast is regarded as one of the most brilliant minds in biomedical engineering In this handbook she brings together pioneering scientists from dozens of disciplines to provide a complete record of accomplishment in metab Microbiology Abstracts , 1986

*Algal Bioreactors* Eduardo Jacob-Lopes, Leila Queiroz Zepka, Mariany Costa Depra, 2024-11-21 *Algal Bioreactors Science Engineering and Technology of Upstream Processes* Volume One is part of a comprehensive two volume set that provides all of the knowledge needed to design develop and operate algal bioreactors for the production of renewable resources Supported by critical parameters and properties mathematical models and calculations methods and practical real world case studies readers will find everything they need to know on the upstream and downstream processes of algal bioreactors for renewable resource production Bringing together renowned experts in microalgal biotechnology this book will help researchers scientists and engineers from academia and industry overcome barriers and advance the production of renewable resources and renewable energy from algae Students will also find invaluable explanations of the fundamentals and key principles of algal bioreactors making it an accessible read for students of engineering microbiology biochemistry biotechnology and environmental sciences Presents the physical biological environmental and economic parameters of upstream processes in the operation and development of algal bioreactors to produce renewable resources Explains the main configurations and designs of algal bioreactors presenting recent innovations and future trends Integrates the scientific engineering technology environmental and economic aspects of producing renewable resources and other valuable bioproducts using algal bioreactors Provides real world case studies at various scales to demonstrate the practical implementation of the various technologies and methods discussed

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