

PRINCIPLES AND PRACTICE

Cell and Tissue Reaction Engineering

Regine Eibl, Dieter Eibl, Ralf Pörtner,
Gerardo Catapano, Peter Czermak

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Cell And Tissue Reaction Engineering Principles And Practice

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The completion of the Human Genome Project and the rapid progress in cell biology and biochemical engineering are major forces driving the steady increase of approved biotech products especially biopharmaceuticals in the market Today mammalian cell products products from cells primarily monoclonals cytokines recombinant glycoproteins and increasingly vaccines dominate the biopharmaceutical industry Moreover a small number of products consisting of in vitro cultivated cells cells as product for regenerative medicine have also been introduced in the market Their efficient production requires comprehensive knowledge of biological as well as biochemical mammalian cell culture fundamentals e g cell characteristics and metabolism cell line establishment culture medium optimization and related engineering principles e g bioreactor design process scale up and optimization In addition new developments focusing on cell line development animal free culture media disposables and the implications of changing processes multi purpose facilities have to be taken into account While a number of excellent books treating the basic methods and applications of mammalian cell culture technology have been published only little attention has been afforded to their engineering aspects The aim of this book is to make a contribution to closing this gap it particularly focuses on the interactions between biological and biochemical and engineering principles in processes derived from cell cultures It is not intended to give a comprehensive overview of the literature This has been done extensively elsewhere

Cell and Tissue Reaction Engineering Regine Eibl,Dieter Eibl,Ralf Pörtner,Gerardo Catapano,Peter Czermak,2009-08-29 The completion of the Human Genome Project and the rapid progress in cell biology and biochemical engineering are major forces driving the steady increase of approved biotech products especially biopharmaceuticals in the market Today mammalian cell products products from cells primarily monoclonals cytokines recombinant glycoproteins and increasingly vaccines dominate the biopharmaceutical industry Moreover a small number of products consisting of in vitro cultivated cells cells as product for regenerative medicine have also been introduced in the market Their efficient production requires comprehensive knowledge of biological as well as biochemical mammalian cell culture fundamentals e g cell characteristics and metabolism cell line establishment culture medium optimization and related engineering principles e g bioreactor design process scale up and optimization In addition new developments focusing on cell line development animal free culture media disposables and the implications of changing processes multi purpose facilities have to be taken into account While a number of excellent books treating the basic methods and applications of mammalian cell culture technology have been published only little attention has been afforded to their engineering aspects The aim of this book is to make a contribution to closing this gap it particularly focuses on the interactions between biological and biochemical and engineering principles in processes derived from cell cultures It is not intended to give a comprehensive overview of the literature This has been done extensively elsewhere

Current Developments in Biotechnology and Bioengineering

Christian Larroche, M. Angeles Sanroman, Guocheng Du, Ashok Pandey, 2016-09-17 *Current Developments in Biotechnology and Bioengineering Bioprocesses Bioreactors and Controls* provides extensive coverage of new developments state of the art technologies and potential future trends reviewing industrial biotechnology and bioengineering practices that facilitate and enhance the transition of processes from lab to plant scale which is becoming increasingly important as such transitions continue to grow in frequency Focusing on industrial bioprocesses bioreactors for bioprocesses and controls for bioprocesses this title reviews industrial practice to identify bottlenecks and propose solutions highlighting that the optimal control of a bioprocess involves not only maximization of product yield but also taking into account parameters such as quality assurance and environmental aspects Describes industrial bioprocesses based on the reaction media Lists the type of bioreactors used for a specific bioprocess application Outlines the principles of control systems in various bioprocesses *Current Developments in Biotechnology and Bioengineering* Ashok Pandey, Ranjna Sirohi, Christian Larroche, Mohammad Taherzadeh, 2022-08-18 *Advances in Bioprocess Engineering* the latest release in the *Current Developments in Biotechnology and Bioengineering* series provides a comprehensive overview of bioprocess systems kinetics bioreactor design batch and continuous reactors and introduces key principles that enable bioprocess engineers to engage in analysis optimization and design with consistent control over biological and chemical transformations The bioprocessing sector is also updating its technologies with state of the art techniques to keep up with the rising demand of the industry and R D This book covers these aspects taking readers through a step by step journey of bioprocessing while also guiding them towards a new era and future Covers state of the art technological advancements in the field of bioprocessing Includes design and scale up of bioreactors monitoring and control systems advances in upstream and downstream processing Includes design and development of fermentation processes such as the suitability of experimental design full factorial central composite design Box Behnken Plackett Burman and more **Hairy Roots** Vikas Srivastava, Shakti Mehrotra, Sonal Mishra, 2018-11-27 The growing scale of plant based chemicals for industrial use has generated considerable interest in developing methods to meet their desired production levels Among various available strategies for their production the development of *Agrobacterium rhizogenes* mediated hairy root cultures HRCs is generally considered the most feasible approach Additionally several proof of principle experiments have demonstrated the practical feasibility of HRCs in the plant based remediation of environment pollutants biotransformation of important compounds and production of therapeutic proteins Given that hairy root biotechnology has now been recognized as a promising and highly dynamic research area this book offers a timely update on recent advances and approaches hairy roots as a multifaceted biological tool for various applications Further it seeks to investigate the loopholes in existing methodologies identify remaining challenges and find potential solutions by presenting well thought out scientific discussions from various eminent research groups working on hairy root biotechnology This book provides detailed conceptual and practical information on HRC based research along with relevant case studies The content

is divided into three broad sections namely i Hairy Roots and Secondary Metabolism ii Progressive Applications and iii Novel Approaches and Future Prospects By informing the research and teaching community about the major strides made in HRC based interventions in plant biology and their applications the book is sure to spark further research in this fascinating field

Animal Cell Biotechnology Hansjörg Hauser, Roland Wagner, 2014-11-10 This book introduces fundamental principles and practical application of techniques used in the scalable production of biopharmaceuticals with animal cell cultures A broad spectrum of subjects relevant to biologics production and manufacturing are reviewed including the generation of robust cell lines a survey of functional genomics for a better understanding of cell lines and processes as well as advances in regulatory compliant upstream and downstream development The book is an essential reference for all those interested in translational animal cell based pharmaceutical biotechnology

Plants as Bioreactors for Industrial Molecules Santosh Kumar Upadhyay, Sudhir Pratap Singh, 2023-02-03 PLANTS AS BIOREACTORS FOR INDUSTRIAL MOLECULES An incisive and practical discussion of how to use plants as bioreactors In Plants as Bioreactors for Industrial Molecules a team of distinguished researchers delivers an insightful and global perspective on the use of plants as bioreactors In the book you ll find coverage of the basic applied biosynthetic and translational approaches to the exploitation of plant technology in the production of high value biomolecules The authors focus on the yield and quality of amino acids vitamins and carbohydrates The authors explain how high value biomolecules enable developers to create cost effective biological systems for the production of biomolecules useful in a variety of sectors They provide a holistic approach to plant based biological devices to produce natural molecules of relevance to the health and agriculture industries Readers will also find A thorough overview of plants as bioreactors and discussions of molecular farming for the production of pharmaceutical proteins in plants Comprehensive explorations of plants as edible vaccines and plant cell culture for biopharmaceuticals Practical discussions of the production of attenuated viral particles as vaccines in plants and insecticidal protein production in transgenic plants Extensive treatment of the regulatory challenges involved in using plants as bioreactors Perfect for academics scientists and researchers in industrial microbiology and biotechnology Plants as Bioreactors for Industrial Molecules will also earn a place in the libraries of biotechnology company professionals in applied product development

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

Yellow Biotechnology II Andreas Vilcinskas, 2014-01-10 Insect derived enzymes a treasure for white biotechnology and food biotechnology Insect derived chitinases Cellulases from insects Optimization of Insect Cell Based Protein Production Processes Expression Systems Online Monitoring Scale Up Insect antenna based biosensors for in situ detection of volatiles Y linked markers for improved population control of the tephritid fruit fly pest *Anastrepha suspensa* Transgenic Approaches to Western Corn Rootworm Control *Tribolium castaneum* as a model for high throughput RNAi screening Aphid proof plants Biotechnology based approaches for aphid control

Computational Modeling in Tissue Engineering Liesbet Geris, 2012-10-30 One of the major challenges in tissue engineering is the translation of biological knowledge on complex cell and tissue behavior into a predictive and robust engineering process Mastering this complexity is an essential step towards clinical applications of tissue engineering This volume discusses computational modeling tools that allow studying the biological complexity in a more quantitative way More specifically computational tools can help in i quantifying and optimizing the tissue engineering product e g by adapting scaffold design to optimize micro environmental signals or by adapting selection criteria to improve homogeneity of the selected cell population ii quantifying and optimizing the tissue engineering process e g by adapting bioreactor design to improve quality and quantity of the final product and iii assessing the influence of the in vivo environment on the behavior of the tissue engineering product e g by investigating vascular ingrowth The book presents examples of each of the above mentioned areas of computational modeling The underlying tissue engineering applications will vary from blood vessels over trachea to cartilage and bone For the chapters describing examples of the first two areas the main focus is on the optimization of mechanical signals mass transport and fluid flow encountered by the cells in scaffolds and bioreactors as well as on the optimization of the cell population itself In the chapters describing modeling contributions in the third area the focus will shift towards the biology the complex interactions between biology and the micro environmental signals and the ways in which modeling might be able to assist in investigating and mastering this complexity The chapters cover issues related to multiscale multiphysics model building training and validation but also discuss recent advances in scientific computing techniques that are needed to implement these models as well as new tools that can be used to experimentally validate the computational results

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