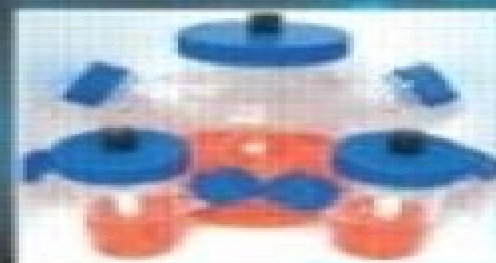


Cell Culture and Upstream Processing



Edited by Michael Butler

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Wenbin Ji



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Cell Culture and Upstream Processing Michael Butler, 2007-06-30 Upstream processing refers to the production of proteins by cells genetically engineered to contain the human gene which will express the protein of interest. The demand for large quantities of specific proteins is increasing the pressure to boost cell culture productivity and optimizing bioreactor output has become a primary concern for most pharmaceutical companies. Each chapter in *Cell Culture and Upstream Processing* is taken from presentations at the highly acclaimed IBC conferences as well as meetings of the European Society for Animal Cell Technology ESACT and Protein Expression in Animal Cells PEACE and describes how to improve yield and optimize the cell culture production process for biopharmaceuticals by focusing on safety, quality, economics, and operability and productivity issues. *Cell Culture and Upstream Processing* will appeal to a wide scientific audience both professional practitioners of animal cell technology as well as students of biochemical engineering or biotechnology in graduate or high level undergraduate courses at university.

Animal Cell Culture and Technology Michael Butler, 2004-08-02 Provides all essential practical information for establishing a laboratory animal cell culture. Comprehensive glossary of terms.

Animal Cell Culture and Technology Michael Butler, 2003 Animal cell culture is an important laboratory technique in the biological and medical sciences. It has become an essential tool for the study of most biochemical and physiological processes and the use of large scale animal cell culture has become increasingly important to the commercial production of specific compounds for the pharmaceutical industry. This book describes the basic requirements for establishing and maintaining cell cultures both in the laboratory and in large scale operations. Minimal background knowledge of the subject is assumed and therefore it will be a readable introduction.

Cell Culture Labfax Michael Butler, M. Butler, M. Dawson, 1992 Interest has steadily increased in the mammalian cell cultures for a wide variety of applications. *Cell Culture Labfax* is a convenient user friendly reference tool for all researchers and students in biology, biotechnology, and biomedicine who currently use or will need to use animal cell culture. This new volume in the LABFAX Series comprehensively covers reference data relevant to cell culture thus eliminating the need to search through a variety of journals, manuals, and catalogs. Spiral bound with a hard case for durability, this book can be used as a prime reference tool at the laboratory bench. An index helps locate facts quickly. This data book complements protocol oriented laboratory guides with up to date data and references on cell lines, culture techniques, cell characterization, separation, cloning, media, preservation, growth factors, products, equipment, safety, terminology, suppliers, and associations.

Cell Culture Michael Butler, Maureen M. Dawson, 1992

Cell Culture Engineering VI Michael J. Betenbaugh, Jeffrey J. Chalmers, Rob Arathoon, 1999-04-30

Cell Culture Engineering Gyun Min Lee, Helene Fastrup Kildegaard, 2019-09-21 Offers a comprehensive overview of cell culture engineering providing insight into cell engineering systems, biology approaches, and processing technology. In *Cell Culture Engineering: Recombinant Protein Production*, editors Gyun Min Lee and Helene Fastrup Kildegaard assemble top class authors to present expert

coverage of topics such as cell line development for therapeutic protein production development of a transient gene expression upstream platform and CHO synthetic biology They provide readers with everything they need to know about enhancing product and bioprocess attributes using genome scale models of CHO metabolism omics data and mammalian systems biotechnology perfusion culture and much more This all new up to date reference covers all of the important aspects of cell culture engineering including cell engineering system biology approaches and processing technology It describes the challenges in cell line development and cell engineering e g via gene editing tools like CRISPR Cas9 and with the aim to engineer glycosylation patterns Furthermore it gives an overview about synthetic biology approaches applied to cell culture engineering and elaborates the use of CHO cells as common cell line for protein production In addition the book discusses the most important aspects of production processes including cell culture media batch fed batch and perfusion processes as well as process analytical technology quality by design and scale down models Covers key elements of cell culture engineering applied to the production of recombinant proteins for therapeutic use Focuses on mammalian and animal cells to help highlight synthetic and systems biology approaches to cell culture engineering exemplified by the widely used CHO cell line Part of the renowned Advanced Biotechnology book series Cell Culture Engineering Recombinant Protein Production will appeal to biotechnologists bioengineers life scientists chemical engineers and PhD students in the life sciences

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