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Cell culture bioprocess engineering

Completely updated lecture notes in the 2019 offering!About the course This interactive, four-day course covers the fundamentals and practical analysis of cell culture technology and bioprocess engineering. This is the definitive course in cell culture bioprocessing. We have offered this course featuring the latest in the field for over 30 years. We have served more than 4,000 attendees from five continents. The course covers fundamental knowledge in cell and biochemical sciences and processengineering. Expert experiences on biomanufacturing and perspectives on emerging technology are highlighted. Lecturers Wei-Shou Hu, Course Director, Professor, University of Minnesota Susan Abu-Abi, Vice President, Process Development, Bluebird Bio Samira Azarin, Assistant Professor, University of Minnesota Ben Hackel, Associate Professor, University of Minnesota Amine Kamen, Professor, McGill University Bhanu Chandra Mulukutla, Senior Principal Scientist, Bioprocess Research & Development, Pfizer Inc. Gargi Seth, Associate Director, Technical Development Project and Portfolio Management, Genentech Weichang Zhou, Senior Vice President of Biologics Process Development, WuXi AppTec "This course was an excellent way to experience a broad spectrum of subjects within biotechnology. The experience has given me the skills I needed to excel at my current position and inspired me to explore new opportunities within the biotech industry." -Senior Process Development Scientist, Bayer HealthCare Pharmaceuticals REGISTER HERE! Last Day of registration is July 12th, 2019 More information For more information, visit the website at cbt.umn.edu. If you have questions, contact Camille Hanson, Department of Chemical Engineering and Materials Science, University of Minnesota at acre@umn.edu or +1 (612) 626-7630. © 2021 Regents of the University of Minnesota. All rights reserved. The University of Minnesota is an equal opportunity educator and employer. Privacy Statement Report Web Disability-Related Issue There has been continuous growth in mammalian cell culture bioprocessing. This is primarily driven by the expansion of therapeutic protein production in the pharmaceutical industry. Cell culture medium consists of basal medium and growth supplements. Traditional cell culture medium contains up to 15% animal serum, in addition to its basal medium. A chemically defined cell culture medium typically includes glucose, amino acids, salts, nucleotides, and vitamins. Modern industrial cell culture processes have largely eliminated serum and employ medium free of animal components, to minimize the risk of animal viruses or prior contamination. Virtually all continuous cell culture processes used in biomanufacturing employ cell recycling. With increased equipment reliability and the demonstration of success, there has been increasing interest to explore the use of continuous culture in biomanufacturing. The full text of this article hosted at iucr.org is unavailable due to technical difficulties. © 1996-2015, Amazon.com, Inc. or its affiliates Animal cells have become important catalysts for many bioprocesses. They are capable of making a vast array of important therapeutic proteins. With recombinant DNA techniques, it is possible to achieve significant levels of production of compounds made only in minute amounts in native cells. Animal cells possess the machinery to do complex posttranslational modifications to proteins. This capacity is essential in some cases to the formation of a clinically useful product particularly for therapeutic proteins. Currently, more than 50% of new therapeutic proteins are being produced using mammalian cell tissue culture. Also, the development of stem cell technology opens the possibility ... This book is the culmination of three decades of accumulated experience in teaching biotechnology professionals. It distills the fundamental principles and essential knowledge of cell culture processes from across many different disciplines and presents them in a series of easy-to-follow, comprehensive chapters. Practicality, including technological advances and best practices, is emphasized. This second edition consists of major updates to all relevant topics contained within this work. The previous edition has been successfully used in training courses on cell culture bioprocessing over the past seven years. The format of the book is well-suited to fast-paced learning, such as is found in the intensive short course, since the key take-home messages are prominently highlighted in panels. The book is also well-suited to act as a reference guide for experienced industrial practitioners of mammalian cell cultivation for the production of biologics. Preface; 1. Overview of Cell Culture Processes; 2. Cell Biology for Bioprocessing; 3. Cell Physiology; 4. Product Quality and Process; 5. Stoichiometry and the Kinetics of Cell Cultivation; 6. Cell Line Development; 7. Medium Design for Cell Culture Processing; 8. Cell Culture Bioreactors; 9. Fed-Batch Culture Processes; 10. Continuous Cell Culture Processes; 11. Oxygen Transfer in Cell Culture Bioreactors; 12. Scaling Up and Scaling Down for Cell Culture Bioreactors; Appendices: Cell Culture Process Data Analysis Volume 30, December 2020, Pages 128-134View full text Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising. If you continue browsing the site, you agree to the use of cookies on this website. See our User Agreement and Privacy Policy. Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising. If you continue browsing the site, you agree to the use of cookies on this website. See our Privacy Policy and User Agreement for details.

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