

Contents

Mammalian Cell Cultures for Biologics Manufacturing	1
Anne Kantardjieff and Weichang Zhou	
Mammalian Cell Line Developments in Speed and Efficiency	11
Scott Estes and Mark Melville	
Cell Culture Process Operations for Recombinant Protein Production	35
Susan Abu-Absi, Sen Xu, Hugh Graham, Nimish Dalal, Marcus Boyer and Kedar Dave	
Equipment for Large-Scale Mammalian Cell Culture	69
Sadettin S. Ozturk	
Development and Characterization of a Cell Culture Manufacturing Process Using Quality by Design (QbD) Principles	93
Daniel M. Marasco, Jinxin Gao, Kristi Griffiths, Christopher Froggatt, Tongtong Wang and Gan Wei	
Product Quality Considerations for Mammalian Cell Culture Process Development and Manufacturing.	123
Michael J. Gramer	
Safety Assurance for Biologics Manufactured in Mammalian Cell Cultures: A Multitiered Strategy	167
Dayue Chen	
Mammalian Cell Culture Capacity for Biopharmaceutical Manufacturing	185
Dawn M. Ecker and Thomas C. Ransohoff	

Transcriptomics as a Tool for Assessing the Scalability of Mammalian Cell Perfusion Systems	227
Karthik P. Jayapal and Chetan T. Goudar	
Lifecycle Management for Recombinant Protein Production Using Mammalian Cell Culture Technology	245
Enda Moran and Patrick Gammell	
Index	257

Mammalian Cell Cultures for Biologics Manufacturing

Zhou, W.; Kantardjieff, A. (Eds.)

2014, VIII, 259 p. 71 illus., 54 illus. in color., Hardcover

ISBN: 978-3-642-54049-3