

1. Record Nr.	UNINA9910140007703321
Titolo	Bitácora urbano-territorial
Pubbl/distr/stampa	Santa Fe de Bogotá, D.C., Colombia : , : Instituto de Investigaciones Hábitat, Ciudad y Territorio, Universidad Nacional de Colombia, Sede Bogotá, , 1997-
ISSN	2027-145X
Soggetti	Cities and towns - Colombia City planning - Colombia Cities and towns City planning Periodicals. Colombia
Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Some issues also have thematic titles.

2. Record Nr.	UNINA9910956907403321
Titolo	Upstream industrial biotechnology / / edited by Michael C. Flickinger
Pubbl/distr/stampa	Hoboken, New Jersey, : John Wiley & Sons Inc., c2013
ISBN	9781118619278 1118619277 9781118619230 1118619234
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1838 p.)
Classificazione	SCI010000
Altri autori (Persone)	FlickingerMichael C
Disciplina	660.6
Soggetti	Biotechnology Biotechnology industries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	UPSTREAM INDUSTRIAL BIOTECHNOLOGY; CONTENTS; 27 Animal Cell Culture, Effects of Osmolality and Temperature; PREFACE; CONTRIBUTORS; PART I INTRODUCTION; PART II INDUSTRIAL CELL GROWTH AND GENE EXPRESSION SYSTEMS; 1 Animal Cells, Suspension Culture; 1.1 INTRODUCTION; 1.2 TYPES USED FOR LARGE-SCALE PRODUCTION IN SUSPENSION CULTURE; 1.3 SUSPENSION CULTURE REACTORS; 1.4 OPERATING MODES FOR REACTORS; 1.5 PROCESS MONITORING AND CONTROL; 1.6 CULTURE MEDIA FOR SUSPENSION CULTURE; 1.7 CONCLUSIONS; REFERENCES; 2 Baculovirus Expression Systems; 2.1 INTRODUCTION; 2.2 BACULOVIRUS STRUCTURE AND REPLICATION 2.3 PRODUCTION OF RECOMBINANT BACULOVIRUSES 2.4 BACULOVIRUS TRANSFER VECTORS; 2.5 MODIFYING THE BACULOVIRUS GENOME TO IMPROVE PROTEIN PRODUCTION; 2.6 INSECT CELL CULTURE; 2.7 BACULOVIRUSES FOR GENE EXPRESSION IN MAMMALIAN CELLS; 2.8 CONCLUSION; REFERENCES; 3 Baculovirus Kinetics, Insect Culture; 3.1 HISTORY AND CHALLENGE; 3.2 BACULOVIRUS; 3.3 CELL YIELD CONCEPT; 3.4 KINETIC MODEL OF VIRAL INFECTION: SYNCHRONOUS INFECTION; 3.5 KINETIC MODEL OF VIRAL INFECTION: ASYNCHRONOUS INFECTION; REFERENCES; 4 Cell Culture, Aseptic Techniques; 4.1

INTRODUCTION; 4.2 ASEPTIC TECHNIQUE: GENERAL CONSIDERATIONS
4.3 ASEPTIC TECHNIQUE: BASIC PROCEDURES4.4 HEPA FILTRATION; 4.5 HOODS AND CABINETS EMPLOYING HEPA FILTRATION; 4.6 WORKING WITHIN UNIDIRECTIONAL AIRFLOW CABINETS AND MICROBIOLOGICAL SAFETY CABINETS; 4.7 TESTING OF CLASS I AND CLASS II MICROBIOLOGICAL SAFETY CABINETS; 4.8 CLEANROOMS FOR CELL CULTURE USE; REFERENCES; 5 Cell Cycle in Bioprocesses; 5.1 INTRODUCTION; 5.2 THE CELL CYCLE; 5.3 METHODS FOR DESCRIBING THE CELLCYCLE; 5.4 IMPORTANCE OF THE CELL CYCLE IN PROCESS BIOTECHNOLOGY; REFERENCES; 6 Cell Growth and Protein Expression Kinetics; 6.1 INTRODUCTION; 6.2 BATCH CULTURE KINETICS 6.3 CONTINUOUS CULTURE KINETICS6.4 FED-BATCH AND PERFUSION CULTURES; 6.5 CONCLUSIONS; NOMENCLATURE; REFERENCES; 7 Cell Viability Measurement; 7.1 INTRODUCTION; 7.2 PERMEABILITY ASSAYS; 7.3 FUNCTIONAL ASSAYS; 7.4 FLOW CYTOMETRY; 7.5 PHYSICAL METHODS; REFERENCES; 8 Contamination Detection in Animal Cell Culture; 8.1 INTRODUCTION; 8.2 HISTORICAL PERSPECTIVES; 8.3 REGULATORY ISSUES; 8.4 MANUFACTURING AND SAFETY TESTING STANDARDS; 8.5 EXAMPLES OF VIRAL CONTAMINANTS; 8.6 DETECTION OF VIRAL CONTAMINANTS IN CELL LINES; 8.7 TESTING RAW MATERIALS; 8.8 DETECTION OF MYCOPLASMAS; 8.9 BACTERIA AND FUNGI 8.10 OXYGEN UPTAKE RATE8.11 ENDOTOXIN DETECTION; 8.12 STATISTICAL ANALYSIS; 8.13 DETECTION OF PRIONS; 8.14 SUMMARY; REFERENCES; 9 Culture Collections and Biological Resource Centers (BRCs); 9.1 INTRODUCTION; 9.2 CULTURE COLLECTION FUNDING; 9.3 OPERATION; 9.4 QUALITY MANAGEMENT; 9.5 SERVICES; 9.6 SUMMARY; REFERENCES; FURTHER READING; 10 Culture Preservation; 10.1 INTRODUCTION; 10.2 CULTURE AND PRESERVATION OF BACTERIA; 10.3 CULTURE AND PRESERVATION OF FUNGI AND YEAST; 10.4 CULTURE AND PRESERVATION OF CELL CULTURES; REFERENCES
11 Expression and Secretion of Heterologous Proteins, *Bacillus* and Other Gram-Positive Bacteria

Sommario/riassunto

Biotechnology represents a major area of research focus, and many universities are developing academic programs in the field. This guide to biomanufacturing contains carefully selected articles from Wiley's Encyclopedia of Industrial Biotechnology, Bioprocess, Bioseparation, and Cell Technology as well as new articles (80 in all,) and features the same breadth and quality of coverage and clarity of presentation found in the original. For instructors, advanced students, and those involved in regulatory compliance, this two-volume desk reference offers an accessible and comprehensive reso
