

1. Record Nr.	UNINA9910789451903321
Titolo	Advances in biotechnology . Volume I Scientific and engineering principles : proceedings of the Sixth International Fermentation Symposium held in London, Canada, July 20-25, 1980 // general editor, Murray Moo-Young ; edited by Campbell W. Robinson and Claude Vezina
Pubbl/distr/stampa	Ontario, Canada : , : Pergamon Press, , 1981 ©1981
ISBN	1-4831-4845-9
Descrizione fisica	1 online resource (811 p.)
Collana	Advances in Biotechnology ; ; Volume I
Disciplina	660.28449
Soggetti	Fermentation Industrial microbiology Biochemical engineering
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 at the end of each chapters and indexes.
Nota di contenuto	Front Cover; Scientific and Engineering Principles; Copyright Page; Editorial Board; Table of Contents; PREFACE; GUEST EDITORIAL I. BIOCHEMICAL ENGINEERING: WHERE HAS IT BEEN AND WHERE IS IT GOING?; ""TECHNOLOGY-PULL"" AND ""SCIENCE-PUSH""; CURRENT STATE OF BIOCHEMICAL ENGINEERING; SOME SUGGESTIONS AND PROPOSALS; REFERENCES; GUEST EDITORIAL II. GENETICS AND INDUSTRIAL MICROBIOLOGY: STILL FURTHER HORIZONS; Section I: Microbial Cultures: Screening,Improvement, Patents; Chapter 1 . STRAIN IMPROVEMENT PROGRAMS IN ANTIBIOTIC-PRODUCING MICROORGANISMS- PRESENT AND FUTURE STRATEGIES; ABSTRACT KEYWORDSINTRODUCTIO; RATIONAL SELECTION PROCEDURES; POTENTIALS FOR R-DNA TECHNOLOGY IN MICROBIAL SELECTION; REFERENCES; Chapter 2. NEW ORGANISMS OF ECONOMIC IMPORTANCE: THE CASE OF FRANKIA; ABSTRACT; KEYWORDS; INTRODUCTION; LEGUMES; ACTINOMYCETES; CONCLUSIONS; ACKNOWLEDGEMENT; REFERENCES; Chapter 3. MIXED CULTURES IN INDUSTRIAL PROCESSES D.E.F. Harrison; ABSTRACT; KEYWORDS; INTRODUCTION; ADVANTAGES

OF MIXED CULTURES FOR SCP PRODUCTION; OTHER APPLICATIONS OF MIXED CULTURES; DISADVANTAGES OF MIXED CULTURES; FUTURE PROSPECTS; REFERENCES; Chapter 4. CULTURES AND PATENTS Roman Saliwanchik  
ABSTRACT; KEYWORDS; DISCUSSION; CONCLUSION; REFERENCES;  
Chapter 5. PRODUCTION OF PHARMACOLOGICALLY ACTIVE AGENTS FROM MICROBIAL ORIGIN; ABSTRACT; KEYWORDS; INTRODUCTION; I. PROTEASE INHIBITORS; II. GLYCOSIDASE INHIBITORS; III. INHIBITORS OF HYDROLYTIC ENZYMES LOCATED ON THE CELL SURFACE; REFERENCES;  
Chapter 6. SCREENING OF BASIDIOMYCETES FOR THE PRODUCTION; ABSTRACT; KEYWORDS; INTRODUCTION; RESULTS AND DISCUSSION; ACKNOWLEDGEMENT; REFERENCES; Chapter 7. SCREENING OF BACTERIAL ISOLATES FOR ANTIGONOCOCCAL ACTIVITIES; ABSTRACT; KEYWORDS; INTRODUCTION; SCREENING; CRUDE PREPARATIONS; CONCLUSION  
ACKNOWLEDGEMENT; REFERENCES; Chapter 8. ISOLATION OF CARBOXYL PROTEINASES OF MICROBIAL ORIGIN ON PEPSTATIN-SEPHAROSE RESIN; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; RESULTS AND DISCUSSION; REFERENCES; Chapter 9. RAPID STRAIN SELECTION FOR CITRIC ACID PRODUCTION; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; ACKNOWLEDGEMENT; REFERENCES; Chapter 10. USE OF CERULENIN IN SELECTING IMPROVED MUTANTS OF A DAUNORUBICIN-PRODUCING STREPTOMYCETE; ABSTRACT; KEYWORDS; INTRODUCTION; RESULTS AND DISCUSSION; ACKNOWLEDGEMENTS; REFERENCES  
Chapter 11. IMPROVEMENT OF THE DAUNORUBICIN FERMENTATION REALIZED AT 10,000 LITER FERMENTOR SCALE; ABSTRACT; KEYWORDS; INTRODUCTION; METHOD OF ASSAY FOR DAUNORUBICIN; FERMENTATION; RECOVERY; CONCLUSION; ACKNOWLEDGMENT; REFERENCES; Chapter 12. STUDIES ON THE AVERMECTIN FERMENTATION; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; RESULTS; DISCUSSION; REFERENCES; Chapter 13. THE INFLUENCE OF OXYGEN CONCENTRATION ON MICROBIAL INSECTICIDE PRODUCTION; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; RESULTS, DISCUSSION AND CONCLUSIONS; NOMENCLATURE; REFERENCES  
Section II Recombinant DNA and Microbial Genetics

---

Sommario/riassunto

Advances in Biotechnology, Volume I: Scientific and Engineering Principles is the first of a series of three volumes and is based on the proceedings of the Sixth International Fermentation Symposium (IFS-6) held in London, Ontario, Canada, 20-25 July 1980. This volume is organized into 13 sections and contains 111 papers which represent about 80% of the total submitted. Section I contains papers on microbial cultures. Section II presents studies on recombinant DNA and microbial genetics. The papers in Section III deal with plant and animal cell and tissue culture. Section IV examines the micro

---