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Nota di contenuto	Front Cover; Fermentation Products; Copyright Page; Table of Contents; PREFACE; GUEST EDITORIAL PROBLEMS AND TRENDS IN THE DEVELOPMENT OF NEW ANTIBIOTICS AND OTHER USEFUL MICROBIAL PRODUCTS; Section I: New Aspects of Secondary Metabolites; CHAPTER 1. POSSIBLE FUNCTIONS OF THE PEPTIDE ANTIBIOTICS TYROCIDINE AND GRAMICIDIN DURING SPORULATION; ABSTRACT; KEYWORDS; INTRODUCTION; PEPTIDE SYNTHESIS AND THE INDUCTION OF SPORULATION; THE ACTION OF TYROCIDINE IN VITRO; THE ACTION OF GRAMICIDIN IN VITRO; CONCLUDING REMARKS; REFERENCES CHAPTER 2. THE ROLE OF SECONDARY METABOLISM IN PENICILLIUM BREVICOMPACTUMABSTRACT; KEYWORDS; INTRODUCTION; RESULTS AND CONCLUSIONS OF EARLIER STUDIES; EXPERIMENTS TO EXPLORE THE POSSIBILITY THAT MYCOPHENOLIC ACID IS A PRODUCT OF AN AERIAL MYCELIUM; CURRENT THOUGHTS ABOUT THE ROLE OF MYCOPHENOLIC ACID IN P. BREVI COMPACTUM; THE SITUATION WITH BREVIANAMIDE A (VI); ACKNOWLEDGEMENT; REFERENCES; CHAPTER 3. A STUDY OF SECONDARY GROWTH OF STREPTOMYCES GRISEORUBER; ABSTRACT; KEYWORDS; INTRODUCTION; EXPERIMENTAL CONDITIONS;

RESULTS; REFERENCES

CHAPTER 4. ROLE OF PLASMID GENES IN AUREOTHRICIN PRODUCTIONABSTRACT; KEYWORDS; INTRODUCTION; BIOSYNTHETIC PATHWAY OF AUREOTHRICIN; PHYSICAL CHARACTERIZATION OF PLASMIDS; AUREOTHRICIN PRODUCTIVITY AND RELATED CHARACTERS OF MUTANTS (TABLE 1); GENERAL DISCUSSION; REFERENCES; CHAPTER 5. FUNCTION OF PLASMIDS IN PRODUCERS OF MACROLIDES; ABSTRACT; KEYWORDS; INTRODUCTION; RESULTS AND DISCUSSION; ACKNOWLEDGEMENTS; REFERENCES; CHAPTER 6. UNSTABLE PLEIOTROPIC MUTATION IN STREPTOMYCES LAVENDULAE; ABSTRACT; KEYWORDS; INTRODUCTION; RESULTS AND DISCUSSION; ACKNOWLEDGEMENT; REFERENCES
CHAPTER 7. LOCALIZATION OF ANTIMYCIN A AND MELANIN DETERMINANTS IN AUXOTROPHS OF *Streptomyces* sp. M-506 AND IN THEIR PROTOTROPHIC REVERTANTSABSTRACT; KEYWORDS; INTRODUCTION; RESULTS; DISCUSSION AND CONCLUSION; REFERENCES; CHAPTER 8. CHARACTERIZATION OF A PLASMID FROM *BACILLUS BREVIS* ATCC 9999; ABSTRACT; KEYWORDS; INTRODUCTION; ISOLATION OF CCC DNA; CHARACTERIZATION OF CCC DNA; ACKNOWLEDGEMENT; REFERENCES; CHAPTER 9. GENETICS OF PENICILLIN PRODUCING ORGANISMS; ABSTRACT; KEYWORDS; INTRODUCTION; GENETICS AND BIOCHEMISTRY OF PENICILLIN PRODUCTION; MUTATION AND DNA REPAIR; ACKNOWLEDGEMENTS REFERENCESCHAPTER 10. PENICILLIN PRODUCTION BY RECOMBINANT STRAINS.OF *Penicillium chrysogenum* OBTAINED BY FUSION OF PROTOPLASTS; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; RESULTS AND DISCUSSION; REFERENCES; CHAPTER 11. FUSION OF PROTOPLASTS OF *BACILLUS* SPECIES; ABSTRACT; KEYWORDS; INTRODUCTION; MATERIALS AND METHODS; RESULTS; DISCUSSION; REFERENCES; CHAPTER 12. STUDIES ON THE NATURE OF VACUOLES IN PROTOPLASTS OF *CLAVICEPS PURPUREA*; ABSTRACT; KEYWORDS; INTRODUCTION; METHODS; RESULTS AND DISCUSSION; CONCLUSION; ACKNOWLEDGEMENT; REFERENCES; Section II: Antibiotics
CHAPTER 13. CELL-FREE BIOSYNTHESIS OF MACROLIDES AND OTHER ""POLYKETIDE"" ANTIBIOTICS

Sommario/riassunto

Advances in Biotechnology, Volume III: Fermentation Products is the third 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 contains 87 papers organized into nine sections. The papers under Section I deal with developments in the field of secondary metabolism (functions of secondary metabolites in the producing organisms; roles of plasmids in the biosynthesis of secondary metabolites; and protoplast fusion in industrial microorganisms). Sections II to VII examine t