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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