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Nota di contenuto	COVER; CONTENTS; FROM CLASSICAL GENETICS TO MODERN GENETICS; GENETIC ENGINEERING AND r-DNA TECHNOLOGY; GENETIC COMPLEXITY; ENZYMES USED IN GENE MANIPULATION OF DNA AND RNA; RESTRICTION ENDONUCLEASES - MOLECULAR SCALPELS; ISOLATION AND PURIFICATION OF DNA; PLASMIDS; ISOLATION AND PURIFICATION OF PLASMID DNA; PREPARATION OF RNA; AUTORADIOGRAPHY; ELECTROPHORESIS OF DNA; PULSED FIELD GEL ELECTROPHORESIS (PFGE); NUCLEIC ACID STAINING; NUCLEIC ACID LABELLING; MOLECULAR PROBES; HYBRIDIZATION TECHNIQUES; DNA FINGERPRINTING (DNA PROFILING); RESTRICTION FRAGMENT LENGTH POLYMORPHISM (RFLP) BLOTTING TECHNIQUES VECTORS; GENE CLONING; SCREENING OF RECOMBINANTS; PROTOPLAST TECHNOLOGY; DNA-PROTEIN INTERACTIONS; DNA LIBRARIES; CHROMOSOME WALKING AND JUMPING; SITE DIRECTED MUTAGENESIS; DNA SYNTHESIS; TECHNIQUES OF (CHROMOSOME) GENE MAPPING; DNA SEQUENCING (GENE SEQUENCING); RIBOZYMES; POLYMERASE CHAIN REACTION (PCR);

RANDOM AMPLIFICATION OF POLYMORPHIC DNA (RAPD); SUBTRACTION HYBRIDIZATION; RIBOTYPING; PROTEIN ENGINEERING; STRAIN IMPROVEMENT OF INDUSTRIALLY IMPORTANT ORGANISMS; GENE TRANSFER TECHNOLOGIES; TRANSGENIC ANIMALS; HUMAN GENE THERAPY; GENE TARGETING; ANTISENSE THERAPY RNA INTERFERENCEFLOW CYTOGENETICS; HUMAN GENOME PROJECT - PART I; HUMAN GENOME PROJECT - PART II; GENOMICS; PROTEOMICS; BIOINFORMATICS -I (PRIMER); BIOINFORMATICS -II (TOOLS AND TECHNIQUES); ETHICAL, LEGAL, SOCIAL, ENVIRONMENTAL AND HEALTH ISSUES RELATED TO GENE BIOTECHNOLOGY; SYNTHETIC BIOLOGY; GLOSSARY; REFERENCES

Sommario/riassunto

This book has been designed to discuss genetics basis of biotechnology and introduce the students to the recent developments in the fields of genetics.