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Nota di contenuto

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12. THE ANATOMY OF EUKARYOTIC CHROMOSOMES13. ORGANISATION OF GENES WITHIN CHROMOSOMES; 14. THE MOLECULAR ANATOMY OF EUKARYOTIC GENES; 15. CHROMOSOME ABERRATIONS AND LINKS TO HUMAN DISEASE; 16. TYPES OF MUTATIONS AND THEIR EFFECTS; 17. FORMS OF CHEMICALLY ALTERED DNA; 18. DNA REPAIR MECHANISMS; 19. LINKAGE ANALYSIS; 20. PEDIGREE ANALYSIS AND MODES OF INHERITANCE; 21. GENES DICTATE THE NATURE OF PROTEINS; 22. THE NATURE OF THE GENETIC CODE; 23. TRANSCRIPTION: FORMING GENETIC MESSAGES; 24. POST-TRANSCRIPTIONAL PROCESSING OF MESSENGER RNA; 25. TRANSFER AND RIBOSOMAL RNA PROCESSING/MODIFICATION
26. MECHANISMS REGULATING GENE EXPRESSION27. TRANSCRIPTIONAL REGULATORY SEQUENCES; 28. OPERONS AND PROKARYOTIC CONTROL OF GENE EXPRESSION; 29. TRANSCRIPTION FACTORS AND GENE EXPRESSION; 30. IN VIVO TRANSLATION: DECODING GENETIC MESSAGES; 31. SEQUENCES INVOLVED IN CELLULAR PROTEIN TARGETING; 32. EUKARYOTIC CELL DIVISION: MITOSIS AND MEIOSIS; 33. MOLECULAR MECHANISMS OF CELL CYCLE CONTR0L; 34. GENETIC RECOMBINATION MECHANISMS; 35. GENE TRANSFER DURING BACTERIAL REPRODUCTION; 36. TRANSPOSABLE GENETIC ELEMENTS: TRANSPOSONS; 37. IN VIVO DNA REPLICATION; 38. GENETIC CONTROL OF DEVELOPMENT
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54. METHODS FOR DETERMINING DNA NUCLEOTIDE SEQUENCES55. THE POLYMERASE CHAIN REACTION; 56. ALTERNATIVES TO PCR-BASED IN VITRO DNA/RNA AMPLIFICATION; 57. IN VITRO TRANSLATION METHODS; 58. TYPES AND METHODS OF GENE PROBE GENERATION; 59. CHEMICAL SYNTHESIS OF OLIGONUCLEOTIDES; 60. TYPES AND APPLICATIONS OF NUCLEOTIDE ANALOGUES; 61. METHODS FOR LABELLING GENE PROBES; 62. FUNDAMENTAL PRINCIPLES OF CLONING; 63. THE NATURE OF CLONING VECTORS; 64. INSERTING FOREIGN DNA INTO VECTORS; 65. THE DEVELOPMENT OF BACTERIOPHAGE VECTORS; 66. PLASMIDS: DEVELOPMENT AS CLONING VECTORS
67. YEAST-DERIVED PLASMID VECTORS

Sommario/riassunto

Route Maps in Gene Technology is an exciting new introductory textbook for first-year undergraduates in molecular biology and molecular genetics. The subject is broken down into 140 to 150 key concepts or topics, each of which is dealt with in one doublepaged

spread. These range from basic introductory principles to applied topics at the cutting edge of research. A control strip along the top of the page shows the student which pages need to have been read beforehand and which topics may be followed afterward. In addition, at the front of the book are a selection of 'routes,' which the