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| 1. Record Nr.           | UNINA990001803640403321  |
| Autore                  | Sotgia, Giuseppe   |
| Titolo                  | Rapido sguardo alla frutticoltura italiana e straniera / Giuseppe Sotgia                                   |
| Pubbl/distr/stampa      | Lecce : Tip. Sociale Cooperativa, 1903   |
| Descrizione fisica      | 22 p. ; 25 cm  |
| Disciplina              | 634  |
| Locazione               | FAGBC  |
| Collocazione            | 60 DONO COMES 7/7  |
| Lingua di pubblicazione | Italiano   |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| 2. Record Nr.           | UNINA9910813412303321  |
| Autore                  | Walker Matthew R   |
| Titolo                  | Route maps in gene technology // Matthew R. Walker, with Ralph Rapley                                      |
| Pubbl/distr/stampa      | Oxford ; ; Malden, MA, : Blackwell Science, 1997   |
| ISBN                    | 9786612371684<br>9781282371682<br>1282371681<br>9781444313611<br>1444313614<br>9781444313604<br>1444313606 |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (336 p.)   |
| Altri autori (Persone)  | RapleyRalph  |
| Disciplina              | 660.65<br>660/.65  |
| Soggetti                | Genetic engineering<br>Human genetics  |
| 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 (p. 276-320) and index.
Nota di contenuto	ROUTE MAPS IN GENE TECHNOLOGY; CONTENTS; PREFACE; ABOUT THE ROUTE MAPS FORMAT; 1. THE CONCEPT OF GENES IS DEVELOPED; 2. GENES ARE LOCATED TO CHROMOSOMES; 3. GENES ARE COMPOSED OF DNA; 4. THE CHEMICAL BUILDING BLOCKS OF NUCLEIC ACIDS; 5. FORMATION OF THE DNA DOUBLE HELIX; 6. PACKAGING OF DNA WITHIN CELLS; 7. CHROMATIN STRUCTURE AND THE FUNCTIONAL ACTIVITY OF GENES; 8. TYPES AND FUNCTIONS OF DNA-PROTEIN INTERACTIONS; 9. ORGANISATION OF GENOMES INTO MULTIPLE CHROMOSOMES; 10. DISTRIBUTION OF NUCLEIC ACIDS WITHIN EUKARYOTIC CELLS; 11. TYPES OF RNA MOLECULES 12. THE ANATOMY OF EUKARYOTIC CHROMOSOMES 13. 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 EXPRESSION 27. 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 CONTROL; 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 39. THE NATURAL BIOLOGY OF BACTERIOPHAGES 40. BACTERIOPHAGE GENETICS; 41. RECOMBINANT DNA TECHNOLOGY; 42. ENZYMES COMMONLY USED IN MOLECULAR BIOLOGY METHODS; 43. RESTRICTION ENDONUCLEASES; 44. RESTRICTION FRAGMENT LENGTH POLYMORPHISMS; 45. ISOLATION OF NUCLEIC ACIDS FROM CELLS AND TISSUES; 46. VISUALISING NUCLEIC ACIDS; 47. ELECTROPHORESIS OF NUCLEIC ACIDS; 48. IN VITRO HYBRIDISATION; 49. TYPES OF HYBRIDISATION ASSAY FORMATS; 50. SOUTHERN BLOTTING; 51. IN SITU HYBRIDISATION; 52. MEASURING TRANSCRIPTIONAL ACTIVITY VIA MESSENGER RNA; 53. CONVERTING MESSENGER RNA INTO COMPLEMENTARY DNA 54. METHODS FOR DETERMINING DNA NUCLEOTIDE SEQUENCES 55. 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 doublepage 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

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