1. Record Nr. UNINA9910458899903321

Autore	Brown T. A (Terence A.)
Titolo	Gene cloning and DNA analysis [[electronic resource]] : an introduction / / T.A. Brown
Pubbl/distr/stampa	Hoboken, : Wiley-Blackwell, 2010
ISBN	1-282-68585-6 9786612685859 1-4443-1861-6
Edizione	[6th ed.]
Descrizione fisica	1 online resource (338 p.)
Disciplina	572.8/633
Soggetti	Molecular cloning Nucleotide sequence DNA - Analysis Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	GENECLONINGAND DNAANALYSIS; Contents; TO THE SIXTH EDITION Preface to the Sixth Edition; PART IThe Basic Principlesof Gene Cloning andDNA Analysis; Chapter 1Why Gene Cloningand DNA Analysis areImportant; 1.1 The early development of genetics; 1.2 The advent of gene cloning and the polymerasechain reaction; 1.3 What is gene cloning?; 1.4 What is PCR?; 1.5 Why gene cloning and PCR are so important; 1.5.1 Obtaining a pure sample of a gene by cloning; 1.5.2 PCR can also be used to purify a gene; 1.6 How to find your way through this book Chapter 2Vectors for GeneCloning:Plasmids andBacteriophages2.1 Plasmids; 2.1.1 Size and copy number; 2.1.2 Conjugation and compatibility; 2.1.3 Plasmid classification; 2.1.4 Plasmids in organisms other than bacteria; 2.2 Bacteriophages; 2.2.1 The phage infection cycle; 2.2.2 Lysogenic phages; Gene organization in the DNA molecule; The linear and circular forms of DNA; M13 - a filamentous phage; 2.2.3 Viruses as cloning vectors for other organisms; Chapter 3Purification of DNAfrom Living Cells; 3.1 Preparation of total cell DNA; 3.1.1 Growing and harvesting a bacterial culture

3.1.2 Preparation of a cell extract3.1.3 Purification of DNA from a cell extract; Removing contaminants by organic extraction and enzyme digestion; Using ion-exchange chromatography to purify DNA from a cell extract; 3.1.4 Concentration of DNA samples; 3.1.5 Measurement of DNA concentration; 3.1.6 Other methods for the preparation of total cell DNA; 3.2 Preparation of plasmid DNA; 3.2.1 Separation on the basis of size; 3.2.2 Separation on the basis of conformation; Alkaline denaturation; Ethidium bromide-caesium chloride density gradient centrifugation; 3.2.3 Plasmid amplification
3.3 Preparation of bacteriophage DNA3.3.1 Growth of cultures to obtain a high titer; 3.3.2 Preparation of non-lysogenic phages; 3.3.3 Collection of phages from an infected culture; 3.3.4 Purification of DNA from phage particles; 3.3.5 Purification of M13 DNA causes few problems; Chapter 4Manipulation ofPurified DNA; 4.1 The range of DNA manipulative enzymes; 4.1.1 Nucleases; 4.1.2 Ligases; 4.1.3 Polymerases; 4.1.4 DNA modifying enzymes; 4.2 Enzymes for cutting DNA - restriction endonucleases; 4.2.1 The discovery and function of restriction endonucleases
4.2.2 Type II restriction endonucleases cut DNA at specificnucleotide sequences4.2.3 Blunt ends and sticky ends; 4.2.4 The frequency of recognition sequences in a DNAmolecule; 4.2.5 Performing a restriction digest in the laboratory; 4.2.6 Analyzing the result of restriction endonucleasecleavage; Separation of molecules by gel electrophoresis; Visualizing DNA molecules in an agarose gel; 4.2.7 Estimation of the sizes of DNA molecules; 4.2.8 Mapping the positions of different restriction sites in aDNA molecule; 4.2.9 Special gel electrophoresis methods for separatinglarger molecules
4.3 Ligation - joining DNA molecules together

Sommario/riassunto

Known world-wide as the standard introductory text to this important and exciting area, the sixth edition of Gene Cloning and DNA Analysis addresses new and growing areas of research whilst retaining the philosophy of the previous editions. Assuming the reader has little prior knowledge of the subject, its importance, the principles of the techniques used and their applications are all carefully laid out, with over 250 clearly presented four-colour illustrations. In addition to a number of informative changes to the text throughout the book, the final four chapters have been significa

2. Record Nr. UNINA9910787659203321

Titolo	Higher education systems 3.0 : harnessing systemness, delivering performance / / edited by Jason E. Lane and D. Bruce Johnstone
Pubbl/distr/stampa	Albany : , : State University of New York Press, , [2013] ©2013
ISBN	1-4619-4369-8 1-4384-4979-8
Descrizione fisica	1 online resource (335 p.)
Collana	SUNY series, critical Issues in higher education
Altri autori (Persone)	LaneJason E JohnstoneD. Bruce <1941-> (Donald Bruce)
Disciplina	379.1/21
Soggetti	Higher education and state - United States - States Education, Higher - United States - States Education, Higher - United States - States - Administration Education, Higher - United States - Finance
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 and index.
Nota di contenuto	part I. The history and definition of systemness -- part II. Challenges to system innovation : unpacking the tensions -- part III. Emerging roles for systems.
Sommario/riassunto	"A comprehensive examination of higher education multi-campus systems and their role in improving state economies and communities" --Provided by publisher.