

<<生物化学实践Practical B>>

图书基本信息

书名：<<生物化学实践Practical Biochemistry>>

13位ISBN编号：9780521658737

10位ISBN编号：052165873X

出版时间：2000-01-15

出版时间：Cambridge University Press

作者：John M. Walker

页数：783

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## <<生物化学实践Practical B>>

### 内容概要

In this new, 5th edition of a highly popular text, undergraduate students are introduced to all the basic experimental techniques routinely used in practical biochemistry today. Most attention is given to techniques students will encounter in their practical classes, with the principles and theories behind them explained in detail to aid understanding. As a further aid to students, essential calculations and worked answers appear at the end of each chapter. 'Key terms to understand' are also included to help students thoroughly review each topic. No contemporary book on modern biochemical techniques would be complete without chapters on molecular biology, recombinant DNA technology, genetic analysis and biomolecular interactions, and these topics have been extensively covered in this new edition. The book is essential reading for all bioscience undergraduate students and pre-clinical medical students for whom practical biochemistry, molecular biology and immunology form part of the syllabus.

<<生物化学实践Practical B>>

书籍目录

Preface to the fifth edition xiii List of contributors List of abbreviations 1. General principles of biochemical investigations I. Simpkins 1.1 The nature of biochemistry 1.2 Bioenergetics 1.3 Methods for investigating metabolism 1.4 Practical considerations 1.5 In vivo models 1.6 In vitro models 1.7 Microscopy 1.8 Key terms 1.9 Calculations 1.10 Suggestions for further reading 2. Molecular biology and basic techniques R. Rapley 2.1 Introduction 2.2 Components and primary structure of nucleic acids 2.3 Genes and genome complexity 2.4 The nature of the genetic code 2.5 Cellular location of nucleic acids 2.6 The cellular functions of DNA 2.7 The manipulation of nucleic acids : basic tools and techniques 2.8 Isolation and separation of nucleic acids 2.9 Restriction mapping of DNA fragments 2.10 Nucleic acid blotting methods 2.11 Gene probe derivation 2.12 Labelling DNA gene probe molecules 2.13 The polymerase chain reaction 2.14 Nucleotide sequencing of DNA 2.15 Bioinformatics and the Internet 2.16 Key terms 2.17 Calculations 2.18 Suggestions for further reading 3. Recombinant DNA and genetic analysis R. Rapley 3.1 Introduction 3.2 Constructing gene libraries 3.3 Cloning vectors 3.4 Hybridisation and gene probes 3.5 Screening gene libraries 3.6 Applications of gene cloning 3.7 Expression of foreign genes 3.8 Analysing genes and gene expression 3.9 Analysing whole genomes 3.10 Molecular biotechnology and applications 3.11 Key terms 3.12 Suggestions for further reading 4. Immunochemical techniques R. Thorpe and S. Thorpe 4.1 Introduction 4.2 Production of antibodies 4.3 Purification and fragmentation of immunoglobulins 4.4 Immunoprecipitation 4.5 Labelling antibodies 4.6 Immunoblotting 4.7 Immunoassays 4.8 Immunohisto/cytochemistry 4.9 Affinity and avidity 4.10 Immunochemical use of surface plasmon resonance 4.11 Key terms 5. Centrifugation techniques A. Griffiths 6. Protein structure, purification and characterisation J. Walker 7. Biomolecular interactions I. Enzymes K. Wilson 8. Biomolecular interactions II. Cell surface receptors and transporters K. Wilson 9. Spectroscopic techniques I. Atomic and molecular electronic spectroscopy D. B. Gordon 10. Spectroscopic techniques II. Vibrational spectroscopy and electronic and nuclear spin orientation in magnetic fields D. B. Gordon 11. Mass spectrometric techniques D. B. Gordon 12. Electrophoretic techniques J. M. Walker 13. Chromatographic techniques K. Wilson 14. Radioisotope techniques R. J. Slater 15. Electrochemical techniques P. K. Robinson.

<<生物化学实践Practical B>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>