

<<果蝇实验指南>>

图书基本信息

书名：<<果蝇实验指南>>

13位ISBN编号：9787030124401

10位ISBN编号：7030124405

出版时间：2003-12

出版时间：科学出版社

作者：W.沙利文 编

页数：697

字数：1564000

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>

## <<果蝇实验指南>>

### 内容概要

果蝇是遗传学、发育学研究的重要模式生物之一，对于发育生物学、基因组学领域中的探索具有极为重要的意义。

本书是冷泉港实验室出版社Drosophila Protocols的影印版，共提供了近40个未来10年内最可能用到的以果蝇为实验对象的分子生物学、生物化学和细胞生物学研究的实验方案。

每一个方案都经过专家的精心挑选和雕琢，实验设计严谨、准确、简洁、规范，可操作性强，值得称道。

方案涉及染色体、细胞、基因组和发育等方面，既包含了初学者需要了解的基础知识，也涵盖了资深研究者所需的细节。

本书的版式设计侧重于方便读者使用，正文中穿插了丰富的图表作为实验设计的辅助说明，附录中还列出了果蝇研究所需的重要资料如基本溶液、缓冲液的配方和配制方法等。

本书适合于从事发育生物学、细胞生物学、基因组学、遗传学、分子生物学、药物设计和开发以及功能基因组学组研究的相关教学科研人员以及相关学科的本科生、研究生参考使用。

## 书籍目录

Preface Abbreviations CHROMOSOMES 1 Preparation and Analysis of Drosophila Mitotic Chromosomes  
 2 In Situ Hybridization to Somatic Chromosomes 3 BrdU Labeling of Chromosomes 4 Analysis of Meiosis of  
 Fixed and Live Oocytes by Light Microscopy 5 Cytological Analysis of Spermatocyte Growth and Male Meiosis in  
 Drosophila melanogaster 6 Preparation and Analysis of Polytene Chromosomes 7 In Situ Hybridization to  
 Polytene Chromosomes 8 Mapping Protein Distributions on Polytene Chromosomes by Immunostaining CELL  
 BIOLOGY 9 Fluorescent Analysis of Drosophila Embryos 10 Imaginal Discs 11 The Neuromuscular Junction 12  
 Histological Techniques for the Drosophila Eye. Part 1: Larva and Pupa 13 Histological Techniques for the  
 Drosophila Eye. Part 2: Adult 14 Preparation of Thin Sections of Drosophila for Examination by Transmission  
 Electron Microscopy 15 Electrophysiological Approaches to the Neuromusculature 16 Functional Assays of the  
 Peripheral and Central Nervous Systems 17 GFP and Other Reporters 18 Quantitative Microinjection of  
 Drosophila Embryos 19 Targeted Disruption of Gene Function in Drosophila by RNA Interference 20  
 Drosophila Cell Culture and Transfection 21 Generating Antibodies against Drosophila Proteins 22  
 Photoactivated Gene Expression for Cell-fate Mapping and Cell Manipulation MOLECULAR BIOLOGY 23  
 Recovery of DNA Sequences Flanking P-element Insertions: Inverse PCR and Plasmid Rescue 24 GAL4-mediated  
 Ectopic Gene Expression in Drosophila 25 Functional Cell Ablation GENOMICS 26 Preparation of DNA from  
 E. coli Cells Containing Bacteriophage P1 Clones 27 Drosophila Microarrays: From Arrayer Construction to  
 Hybridization 28 Using Drosophila Genome Databases 29 Preparation and Analysis of High-molecular-weight  
 DNA in Drosophila BIOCHEMISTRY 30 Culturing Large Populations of Drosophila for Protein Biochemistry 31  
 Preparation of Nuclear Extracts from Drosophila Embryos and In Vitro Transcription Analysis 32 Preparation of  
 Membrane Proteins from Drosophila Embryos 33 Preparing Cytoplasmic Extracts from Drosophila Embryos 34  
 Immunoblotting of Proteins from Single Drosophila Embryos THE ORGANISM 35 Laboratory Culture of  
 Drosophila 36 Preparation of Larval and Adult Cuticles for Light Microscopy 37 Exposing Drosophila to  
 Neuroactive Drugs APPENDICES 1 1989 Table of Contents from Drosophila: A Laboratory Manual 2 Anatomical  
 Drawings of Drosophila 3 Solutions and Reagents 4 Cautions 5 Suppliers 6 Trademarks Index

<<果蝇实验指南>>

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>