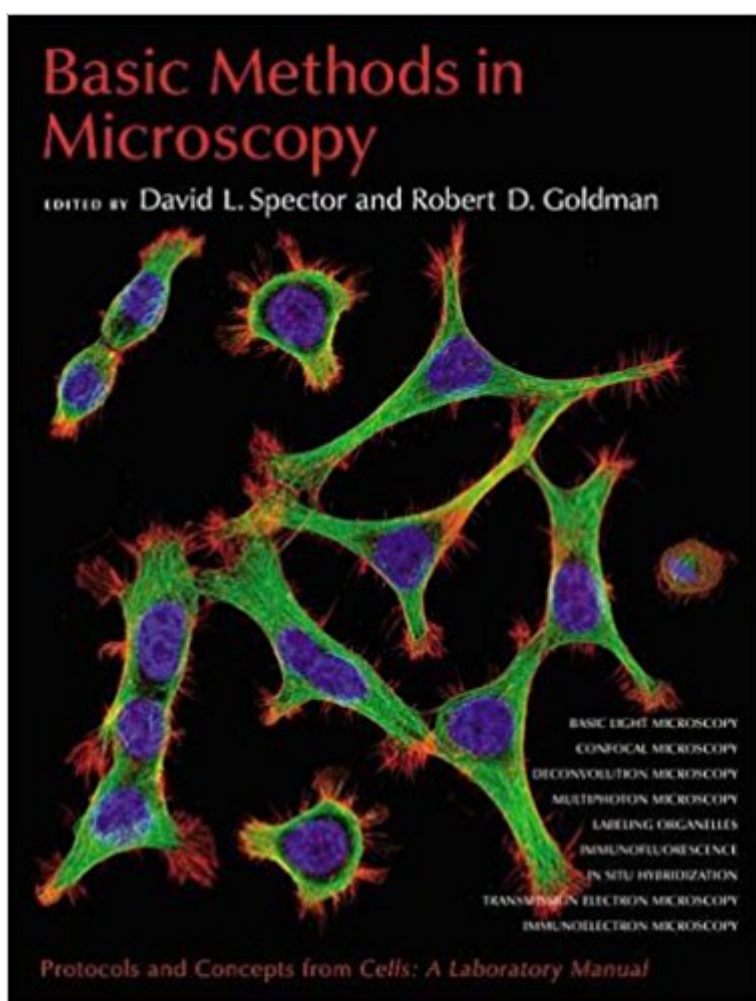


The book was found

Basic Methods In Microscopy: Protocols And Concepts From Cells: A Laboratory Manual



Synopsis

Imaging has become a vital tool for researchers in all aspects of biology. Recent advances in microscope technology, labeling techniques and gene and protein manipulation methods have led to breakthroughs in our understanding of biological processes. In order to take advantage of these techniques, biologists need to understand the fundamental techniques of microscopy. The methods found here, drawn from the popular laboratory standard manual *Cells: A Laboratory Manual*, provide a solid course in the basics of using the microscope in a biology laboratory. *Basic Methods in Microscopy* provides an essential guide to light microscopy, fluorescence microscopy, confocal microscopy, multiphoton microscopy and electron microscopy, preparation of tissues and cells, labeling of specimens and analysis of cellular events. This manual is an important tool for any biology researcher employing imaging as a research method.

Book Information

Paperback: 375 pages

Publisher: Cold Spring Harbor Laboratory Press; 1st edition (October 26, 2005)

Language: English

ISBN-10: 0879697512

ISBN-13: 978-0879697518

Product Dimensions: 11 x 0.7 x 8.5 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 3 customer reviews

Best Sellers Rank: #385,415 in Books (See Top 100 in Books) #26 in [Books > Science & Math > Experiments, Instruments & Measurement > Microscopes & Microscopy](#) #120 in [Books > Medical Books > Medicine > Internal Medicine > Pathology > Laboratory Medicine](#) #188 in [Books > Medical Books > Basic Sciences > Cell Biology](#)

Customer Reviews

Any research laboratory that uses microscopy would benefit immensely by having this volume on hand. The components, from underlying optical principles and theories behind the most basic light microscope to the highly advanced transmission electron microscope, are clearly described in the text, figures, and legends. A variety of techniques in fluorescence microscopy are presented, including protocols for the preparation of specimens, preparation of slides and cover slips, and proper care, maintenance, and cleaning of optical equipment. A handy troubleshooting section provides guidance on how to correct imaging problems. - *The Quarterly Review of Biology*

summary, this book is a useful reference for a teaching laboratory or a microscopy facility with very general interests in a variety of microscopy techniques primarily for fixed tissues. - Microbiology Today

This is a book covering the principles of all kinds of microscopes with structure figures. There many good color photos and graphs. The protocols of tissue preparations are very useful, but maybe duplicate in other books. If you just want to know how to use the microscopes instead of understanding them, it should be a good book for you. It is more like a lab manual collection. The problem of this book is that it distracts a little bit from microscopes to cell culture and immunohistochemistry.

I have only read about 2 chapters and I am impressed. Covers basics and get into the details of more advanced accenting of cell visuals via stains and lighting.

This is good but it's really more geared towards non-optical scopes. I was expecting from what I managed to read of this book, more than a paragraph or two on optical microscopes. It refers to companion books which I will have to now buy to get what I needed. Oh well, another book read and information in my head I'll never use ... but interesting stuff!

[Download to continue reading...](#)

Basic Methods in Microscopy: Protocols and Concepts from Cells: A Laboratory Manual Electron microscopy for beginners: Easy course for understanding and doing electron microscopy (Electron microscopy in Science) Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy: A Laboratory Workbook Cells and tissues: A three-dimensional approach by modern techniques in microscopy : a celebrative symposium--the Opera omnia of Marcello Malpighi : ... in clinical and biological research) Enjoy Your Cells (Enjoy Your Cells Series Book 1) Bacteriophages: Methods and Protocols, Volume 2: Molecular and Applied Aspects (Methods in Molecular Biology) Candida Albicans: Methods and Protocols (Methods in Molecular Biology) Candida Species: Methods and Protocols (Methods in Molecular Biology) Cystic Fibrosis Methods and Protocols (Methods in Molecular Medicine) Legionella: Methods and Protocols (Methods in Molecular Biology) Hemoglobin Disorders: Molecular Methods and Protocols (Methods in Molecular Medicine, Vol. 82) Patch-Clamp Methods and Protocols (Methods in Molecular Biology) Liposome Methods and Protocols (Methods in Molecular Biology) Vaccine Technologies for Veterinary Viral Diseases: Methods and Protocols (Methods in Molecular Biology) Mouse Models of Allergic

Disease: Methods and Protocols (Methods in Molecular Biology) Liquid Cell Electron Microscopy (Advances in Microscopy and Microanalysis) Telephone Triage Protocols for Nurses (Briggs, Telephone Triage Protocols for Nurses098227) Telephone Triage Protocols for Nursing (Briggs, Telephone Triage Protocols for Nurses098227) Telephone Triage Protocols for Nurses (Briggs, Telephone Triage Protocols for Nurses) Handbook of Cryo-Preparation Methods for Electron Microscopy (Methods in Visualization)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)