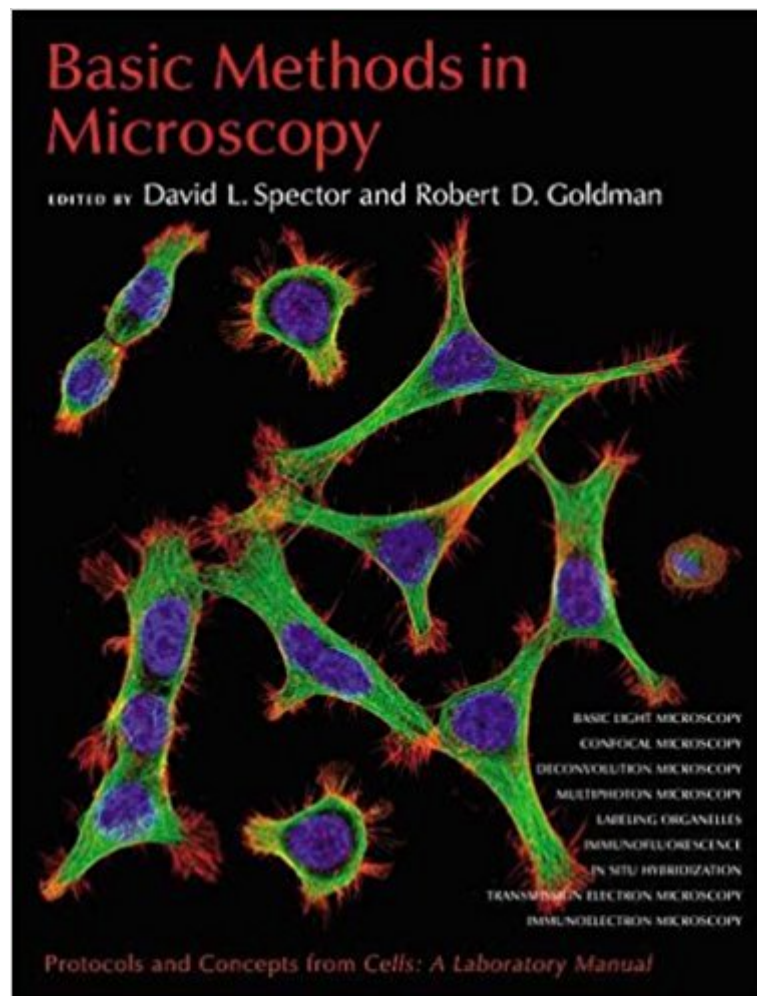




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# Basic Methods In Microscopy: Protocols And Concepts From Cells: A Laboratory Manual



## 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.

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## 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!

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