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# Microscopy and Histology for Molecular Biologists: A User's Guide

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IN PAPERBACK

Edited by JA Kiernan and I Mason  
University of Western Ontario, Canada and University of London, UK

*Microscopy and Histology for Molecular Biologists: A User's Guide* informs research workers how to prepare cells and tissues for examination by traditional and modern types of light microscopy, and how to obtain and analyse images.

The authors provide reasoned accounts of mechanisms and procedures, with selected references to original sources, review articles and textbooks. In addition, detailed technical instructions are provided for many important and frequently used methods. The theoretical background is also presented in sufficient detail to allow intelligent modification of these techniques to suit particular investigations and to solve unexpected problems. Chapters begin with an explanation of the method (or group of methods), including how it works and, why to use it and when. This is followed by detailed technical instructions, including troubleshooting advice.

## Essential Reading

The chapters are written by experts in their fields (histochemistry, histotechnology or microscopy) for readers who are (or aspire to be) experts in biological or biochemical research.

The book is also aimed at research workers in other fields who need to prepare materials for various types of microscopic examination and to interpret the results intelligently.

## Contents

- Methods of light photomicroscopy
- Digital and confocal photomicrography
- Three-dimensional microscopy
- Photomicrography
- Fluorescent staining of living cells
- Freezing and fixation
- Tissue processing and sectioning
- Staining and counterstaining to show structural features
- Immunohistochemical methods
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# Neuronal Signal Transduction and Alzheimer's Disease



Edited by **C. O'Neill**, *University College, Cork, Ireland*  
and **B. Anderton**, *Institute of Psychiatry, London, UK*

The latest in the Biochemical Society Symposium series brings together key researchers from diverse biochemical areas to focus upon signal transduction dysfunction in Alzheimer's disease.

The field of Alzheimer's disease research has developed significantly over the last decade.

The main proteins involved in the pathology of the disease have been identified using a combination of molecular genetics and biochemical pathology. Scientists are close to defining and integrating the neuronal signal-transduction events associated with these proteins, and to determining how this causes neuronal degeneration in Alzheimer's disease.

Unravelling and identifying the primary and central signal transduction events that lead to Alzheimer's disease provides many future challenges for scientific research. This book aims to summarize the current status of research in this area and will hopefully stimulate further investigation in this vital research field.

Although specifically focused upon Alzheimer's, this book has many parallels in other neurodegenerative disorders and will be of interest to those studying neuronal cell development and function in health and disease.

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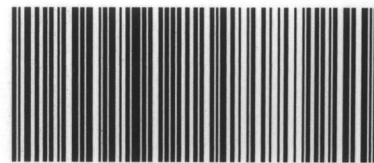
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