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Cytochemical Staining Methods for Electron Microscopy - P. R. Lewis - 1992
D.P. Cytochemical staining methods for electron microscopy - Audrey M. Glaue - 1972
Stains and Cytochemical Methods - M.A. Hayat - 1993-03-31
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Biomedical Electron Microscopy - Arvid B. Maunsbach - 1998-11-03
This comprehensive reference illustrates optimal preparation methods in biological electron microscopy compared with common methodological problems. Not only will the basic methodologies of transmission electron microscopy like fixation, microtomy, and microscopy be presented, but the authors also endeavor to illustrate more specialized techniques such as negative staining, autoradiography, cytochemistry, immunoelectron microscopy, and computer-assisted image analysis. Authored by the key leaders in the biological electron microscopy field, it illustrates both optimal and suboptimal or artifactual results in a variety of electron microscopy disciplines. It introduces students on how to read and interpret electron micrographs.

Techniques for Plant Electron Microscopy - Barrie Edward Juniper - 1970

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Electron Microscopy of Plant Cells - C Hawes - 2012-12-02
Electron Microscopy of Plant Cells serves as manual or reference of major modern techniques used to prepare plant material for transmission and scanning electron microscopy. There have been other books that generally discuss electron microscope methodology. This book focuses on problem areas encountered through the presence of tough cell walls and large central vacuole. It details preparative techniques for botanical specimens. Each of the nine chapters of this book covers the basic principles, useful applications, and reliable procedures used on the method of electron microscopy. Other topics discussed in each chapter include the general preparation and straining of thin sections, quantitative morphological analysis, and enzyme cytochemistry. This book also explains the immunogold labelling, rapid-freezing methods, and ambient- and low-temperature scanning electron microscopy among others. This book will be invaluable to general scientists, biologists, botanists, and students specializing in plant anatomy.

Environmental Colloids and Particles - Kevin J. Wilkinson - 2007-01-30
This text presents the current knowledge of environmental colloids and includes reviews of the current understanding of structure, role and behaviour of environmental colloids and particles, whilst focussing directly on aquatic systems and soils. In addition, there is substantial critical assessment of the techniques employed for the sampling, size fractionation and characterisation of colloids and particles. Chemical, physical and biological processes and interactions involving colloids are described, and
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Human Leukemias - Aaron Polliack - 2012-12-06

Electron Microscopy of Enzymes - M. A. Hayat - 1973

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Biological Specimen Preparation for Transmission Electron Microscopy - Audrey M. Glauert - 2014-07-14
This book contains all the necessary information and advice for anyone wishing to obtain electron micrographs showing the most accurate ultrastructural detail in thin sections of any type of biological specimen. The guidelines for the choice of preparative methods are based on an extensive survey of current laboratory practice. For the first time, in a textbook of this kind, the molecular events occurring during fixation and embedding are analysed in detail. The reasons for choosing particular specimen preparation methods are explained and guidance is given on how to modify established techniques to suit individual requirements. All the practical methods advocated are clearly described, with accompanying tables and the results obtainable are illustrated with many electron micrographs. Portland Press Series: Practical Methods in Electron Microscopy, Volume 17, Audrey M. Glauert, Editor Originally published in 1999. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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A method for specific, cytochemical staining of cystine residues was applied to thin sections of human hair keratin, two yeasts, one fungus and one green alga, for observations in the electron microscope. The method, which deposits granules of metallic silver at or close to the site of cystine residues, may be a useful means of investigating the detailed distribution of disulphide bonds in cells provided that the following criteria are rigorously applied. First, grains of metallic silver must remain after exhaustive sodium thiosulphate extraction; second, the deposition of grains of metallic silver must be inhibited by prior alkylation of the disulphide linkage. Finally, the method should be used in conjunction with other available means of analysis. (Author).

Electron Microscopy covers all of the important aspects of electron microscopy for biologists, including theory of scanning and transmission, specimen preparation, digital imaging and image analysis, laboratory safety and interpretation of images. The text also contains a complete atlas of ultrastructure.

Cellular Electron Microscopy - J. Richard McIntosh - 2011-09-02
Recent advances in the imaging technique electron microscopy (EM) have improved the method, making it more reliable and rewarding, particularly in its description of three-dimensional detail. Cellular Electron Microscopy will help biologists from many disciplines understand modern EM and the value it might bring to their own work. The book's five sections deal with all major issues in EM of cells: specimen preparation, imaging in 3-D, imaging and understanding frozen-hydrated samples, labeling macromolecules, and analyzing EM data. Each chapter was written by scientists who are among the best in their field, and some chapters provide multiple points of view on the issues they discuss. Each section of the book is preceded by an introduction, which should help newcomers understand the subject. The book shows why many biologists believe that modern EM will forge the link between light microscopy of live cells and atomic resolution studies of isolated macromolecules, helping us toward the goal of an atomic resolution understanding of living systems. Updates the numerous technological innovations that have improved the capabilities of electron microscopy Provides timely coverage of the subject given the significant rise in the number of biologists using light microscopy to answer their questions and the natural limitations of this kind of imaging Chapters include a balance of "how to", "so what" and "where next", providing the reader with both practical information, which is necessary to use these methods, and a sense of where the field is going

Methods in Cell Biology - - 1966-01-01
Methods in Cell Biology

Methods in Cell Physiology - David M. Prescott - 2016-06-15
Methods in Cell Physiology

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Since its introduction in 1971, the development and application of colloidal gold as a marker in electron microscopy has been phenomenal. Colloidal gold has become the method of choice in immunocytochemistry and many areas of cell biology. This universal method is applicable to most microscopical systems including optical microscopy; scanning, transmission, and high voltage electron microscopy; photoelectron, photon, fluorescent darkfield, and epipolarization microscopy. Colloidal gold allows high and low resolution studies, enzyme and nucleic acid labeling, study of dynamic cellular processes, and virus detection. This book is among the first available to cover the principles and methodology of colloidal gold in microscopy. Methods are described step by step, to enable researchers to learn these complex procedures solely by reference to these books. Problems and limitations of techniques are discussed. Guides users to avoid problems and choose the correct procedures for specific applications. Contributors are eminent authorities in their fields.

**Biological Electron Microscopy** - Michael J. Dykstra - 2012-12-06
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**The Science of Laboratory Diagnosis** - David Burnett - 1999-01-01
As the use of laboratory tests increases in the medical profession, doctors and medics need a familiarity with the different areas of laboratory diagnosis. Each section of this volume begins with an introduction followed by concise descriptions of the various laboratory tests. This book is intended for pathologists, histopathologists, and all interested general practitioners.

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The **Interpretation of Ultrastructure** - R. J. C. Harris - 2014-07-15
The Interpretation of Ultrastructure is a collection of papers dealing with techniques in ultrastructural research such as in fixation, reversed staining, ultrastructure in embryos and in plants, control of observations by light microscopy, and cytochemistry at the electron microscope level. One paper describes various fixatives used on rat liver tissue including a standard osmium tetroxide solution, pure melted osmium tetroxide, and strong osmium tetroxide solutions in carbon tetrachloride. Another paper points out that the use of electron micrographs of the cell nucleus and chromosomes should include approaches to chromosome analysis. For the investigator studying the three dimensional organization of chromosomes, his approaches should include classical cytology and cytogenetics, chemical and cytochemical studies on nuclei, as well as chemical and physical analysis of nucleic acid and nucleoprotein molecules. Several papers discuss the study of natural and artificial DNA-plasma by thin sections, an assessment of negative staining techniques for revealing ultrastructure, and other approaches in the study of biological ultrastructure by high-resolution electron microscopy. The collection will benefit microbiologists, biotechnologists, and academicians connected with the biological sciences.


Simplified basic theory of transmission electron microscopy; The processing of tissues; The preparation of ultrathin sections for electron microscopy; Staining of biological materials for electron microscopy; Routine operation of the electron microscope; Darkroom procedures; Some general suggestions for the study of ultrastructure; Ultrastructural cytochemistry; Autoradiography with the electron microscope; A brief synopsis of other techniques for the electron microscope; Routine maintenance of the electron microscope.
Methods in Cell Wall Cytochemistry - K V Krishnamurthy - 2020-07-24
Various methodologies designed to study cell walls are compiled in this book. Methods in Cell Wall Cytochemistry covers the use of modern dyes, fluorescent chemicals, lectins, and antibody technology (immunocytochemistry.) Cell wall morphology and chemical composition is covered as well as light and fluorescent cytochemistry; transmission electron microscopic cytochemistry; lectin cytochemistry; and, special emphasis on immunocytochemistry. Addressing an emerging area of research and technology, this book will appeal to plant pathologists, cell biologists, as well as workers interested in stress response and those employing cell walls for biotechnological research.

The Science of Laboratory Diagnosis - John Crocker - 2005-12-17
This fully revised and updated edition of The Science of Laboratory Diagnosis provides a concise description of all common laboratory tests available in medical practice with notes on their application, the accuracy of each test, the historical background to the adoption of various tests and their effectiveness in diagnosis. Well illustrated, with clear headings, tables, flow charts and pathology slides, most in full colour Provides an accessible reference book in which relevant information can be found easily Page design facilitates rapid assimilation of principles and key facts All the chapters have been updated and new material has been introduced to cover recently developed techniques, such as fluid-based cytology, telepathology and proteomics. The Science of Laboratory Diagnosis, Second Edition is an essential primary reference source for everyone working in a clinical laboratory. This book is essential reading for pathologists, biomedical scientists, medical laboratory scientific officers and all clinicians involved in laboratory research. Reviews of the First Edition: "The text is concise, wide-ranging and easy to digest. The ease of extraction of the important facts make it an ideal source of information for use in a variety of situations from the postgraduate examination to the clinical directors' board meeting." BULLETIN OF THE ROYAL COLLEGE OF PATHOLOGISTS "The editors have done a marvellous job, more than fulfilling their stated aim of producing a volume describing the multidisciplinary state of modern pathology which will be of interest to a wide range of readers. I was particularly impressed by the many tables and flow charts, which can be used as aids to decision making." JOURNAL OF CLINICAL PATHOLOGY "This is an excellent book to dip into and get a feel for techniques used in the other disciplines of pathology." ANNALS OF CLINICAL BIOCHEMISTRY
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"1m Kleinsten die wirkliche Wahrheit gibt graBen Gedanken erst Klarheit" KARL THOMAS Each year sees the publication of hundreds of reports of experimental work on the lymphatic tissue, yet morphological studies of the cells involved can be counted on the fingers of one hand. Furthermore, anyone who tries to identify these cells by morphological criteria is accused of sophistry and hair splitting, whereas it is accounted scientifically correct and unbiased to speak of "lymphoid cells", "blast cells" etc. Not so many years ago things were different: there were too many names and too many classifications and everyone backed his particular fancy. People thought of cells in terms of rigid classes, nothing then being known about the transformability of mononuclear blood cells. Today we must look for the middle way: cells should be named and defined according to morphological criteria but their transformation potential should be borne in mind. Once the cells are analysed and subdivided, it will be simple enough to set up proper classifications afterwards. This book arose out of the conviction that there should be more criteria and more information available on the morphology of human lymphoreticular cells; previously such information had been restricted by the difficulty of the special hematological and cytochemical staining methods.


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This easy-to-follow manual describes tested procedures used to prepare biological samples for scanning and transmission electron microscopy, as well as methods for cytochemistry, immunocytochemistry, and scientific photography. The work is structured to clearly define testing objectives, necessary materials, procedural steps, and expected results; a list of references and trouble shooting techniques round out the text.


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This extensively updated and revised Third Edition is a comprehensive and practical guide to the study of the microstructure of polymers. It is the result of the authors' many years of academic and industrial experience. Introductory chapters deal with the basic concepts of both polymer morphology and processing and microscopy and imaging theory. The core of the book is more applied, with many examples of specimen preparation and image interpretation leading to materials characterization. Emerging techniques such as compositional mapping in which microscopy is combined with spectroscopy are considered. The book closes with a problem solving guide.

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