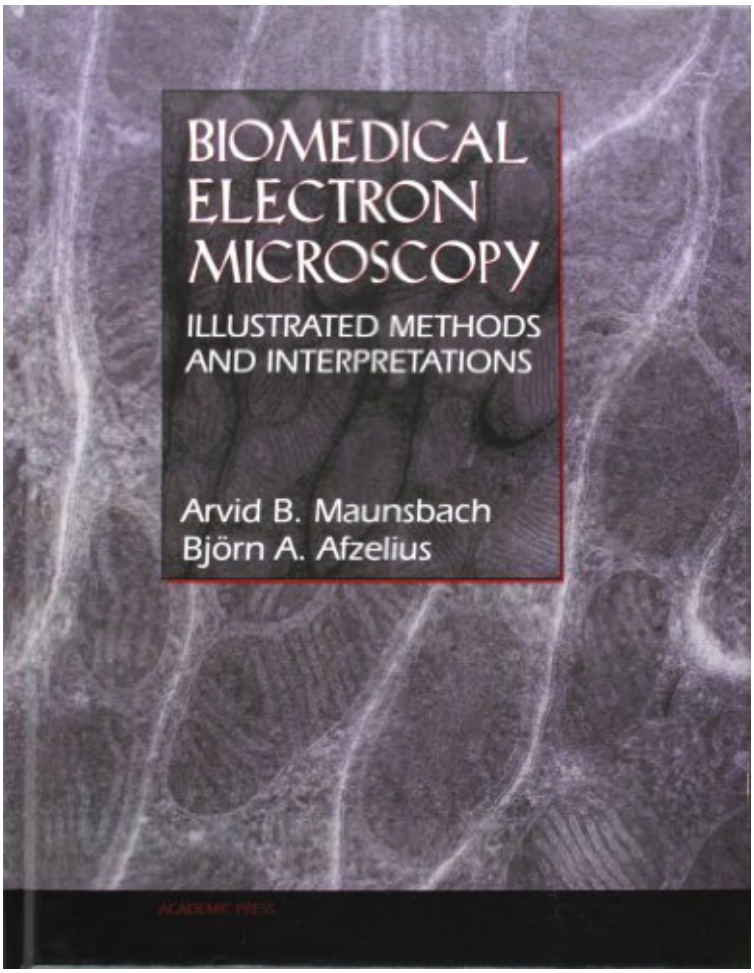
Biomedical Electron Microscopy: Illustrated Methods and Interpretations

Arvid B. Maunsbach, Bjrn A. Afzelius
*ebooks | Download PDF | *ePub | DOC | audiobook*



#4076094 in Books 1998-11-09Original language:EnglishPDF # 1 11.22 x 1.12 x 8.63l, 3.24 #File Name: 0124806104548 pages | File size: 16.Mb

Arvid B. Maunsbach, Bjrn A. Afzelius : Biomedical Electron Microscopy: Illustrated Methods and Interpretations before purchasing it in order to gage whether or not it would be worth my time, and all praised Biomedical Electron Microscopy: Illustrated Methods and Interpretations:

0 of 0 people found the following review helpful. Printing qualityBy JakobsenThe only reason that I give this book a rating as low as two is solely due to the horrible printwork. The image quality is appalling and paper quality very low. As everyone within electronmicroscopy knows the image quality is essential and here are all images pixelated covering important information. Knowing the original book it has been a tremendous disapointment and knowing the high standard of the author, I am sure he would be more than displeased if he saw this publication.The content as such is brilliant and would normally give a rating of 5.0 of 0 people found the following review helpful. Biomedical electron microscopyBy A CustomerIs a wonderful book, it makes a recopilation of almost all the techniques for

electron microscopy studies. Against' any problem this book is able of show you the different possibilities that you have in order to get a good result. The final part of the book with this collection of protocol is really useful, I think is the bettet book for electron microscopy that I never have seen.

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 fieldIllustrates both optimal and suboptimal or artifactual results in a variety of electron microscopy disciplinesIntroduces students on how to read and interpret electron micrographs

"The book contains a wealth of information on the interpretation of electron micrographs - in a degree of detail that usually is known only on the work floor itself... This book has safeguarded important aspects of electron microscopy for future morphologists." --Trends in Cell Biology "This is a superb book that should be in the hands of any new or experienced practitioner of electron microscopy. The writing is clear and direct and the micrographs set the highest standard of technique, quality, and usefulness. It will set a new standard of excellence in reinforcing the importance of the careful and appropriate use of electron microscopy in modern cell biology. No college, university, or life science library should be without it." --Doody's Publishing s "It must be the most comprehensive collection of artifacts to be published!...The strength of the book is in the clear and succinct presentation of techniques; the large number of micrographs illustrating the results; the numerous examples of artifacts and other defects; the high quality information given about specimen preparation for each example; and the references at the end of each chapter." --Micron "This superbly illustrated collection will surely receive very heavy use..." --Ultramicroscopy, 1999 "The true value of this book is that it provides a known and high-quality reference standard against which one's own work may be judged and critically evaluated. It is of benefit to all those who work in the field of biological transmission electron microscopy, as well as the medical field indicated in the title..." --Proceedings of The Royal Microscopical Society, 1999From the Back CoverBiomedical Electron Microscopy: Illustrated Methods and Interpretations contains over 900 carefully chosen transmission electron micrographs illustrating the variety of methods now available in biomedical electron microscopy. The aim of the book is to assist the reader in interpreting biological electron micrographs and in choosing from among the different prepatory methods. Its high-quality micrographs and accompanying explanations and comments are organized systematically in 20 chapters. Numerous experiments were performed specifically for this volume to compare preparatory procedures on selected tissues. A unique and distinguishing feature of this book is that the methods are presented in such a way that both optimal and artifactual results are illustrated and discussed side-by-side.Key Features:* Illustrates current methods in biomedical transmission electron microscopy* Presents up-to-date techniques in a systematic fashion with over 900 micrographs* Demonstrates the wide ranges of preparatory results - both optimal and failed* Compares and evaluates different preparatory procedures on selected tissues* Contains more illustrations than any other book in biomedical electron microscopy* Explains micrographs stepwise - from methods to observations to interpretation* Summarizes hands-on methods in biomedical transmission electron microscopyBenefits - This book will:* Improve your ability to interpret biological electron micrographs* Illustrate to you in one volume the broad range of methods available* Introduce you to recent advances in biomedical electron microscopy* Help you to choose from among the variety of preparatory methods* Assist you in recognizing optimal results, as well as preparatory artifacts* Inform you of pitfalls in the techniques and how to avoid themAbout the AuthorArvid B. Maunsbach. Aarhus, Denmark. Institute of Anatomy, University of Aarhus, Denmark - Bjorn Afzelius. Stockholm, Sweden. The Arrhenius Laboratories, Stockholm University, Sweden