



Principles and Techniques of Electron Microscopy: Biological Applications

By M. A. Hayat



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Principles and Techniques of Electron Microscopy is the standard work for biological electron microscopists wishing to learn how to prepare their specimens for electron microscopic investigation. This fully revised and expanded fourth edition includes three new chapters covering such topics as plant tissues, immunocytochemistry, and applications of microwave irradiation to microscopy. It provides practical instructions on how to process biological specimens, as well as a detailed discussion on the principles underlying the various processes. Dr. Hayat presents methods in a self-explanatory form and includes alternative procedures and points of disagreement to help the reader interpret data accurately. What sets this book apart from its competition is that it not only describes techniques but also explains their fundamental principles; that is, those chemical reactions underlying the use of various reagents for preserving and staining cellular components.



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Editorial Review

Review

"This beautifully printed new edition, to those experienced in the science and art of electron microscopy, will be like an old friend coming home, but even more prosperous than before and bringing specially selected gifts. Researchers, students, or technical staff who are skilled in the art, and beginners at least introduced to the techniques of electron microscopy and other forms of microscopy will find this book both pleasant and invaluable." *Biotechnic Histochemistry*

"[A] standard text for any biological electron microscopist intending to prepare tissues for study by the electron microscope...essentially a Handbook for anyone doing EM preparative research...the Hayat book will prove to be essential to every laboratory planning to use 'state of the art' EM techniques in the new millennium." *British Society of Developmental Biology* (Summer 2001)

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