

**SOME BIOLOGICAL
TECHNIQUES IN
ELECTRON MICROSCOPY**

Edited by D. F. Parsons



Some Biological Techniques In Electron Microscopy

D. F. Parsons



Some Biological Techniques In Electron Microscopy:

Some Biological Techniques in Electron Microscopy D.F. Parsons, 2012-12-02 Some Biological Techniques in Electron Microscopy discusses the problems that hinder or prevent progress in biological electron microscopy This book explores the great potential of electron microscope for solving several pressing medical and biological research problems Organized into five chapters this book starts with an overview of the primary goal of biological electron microscopy which is the visualization of atoms in biological molecules and structures This text proceeds with a discussion of the freezing methods of electron microscopy in which some of the artifacts producing steps of environmental techniques are eliminated Other chapters consider the objective of electron microscopy to resolve successively small objects in the limiting instance single atoms in amorphous structures The final chapter deals with processing tissues for electron microscopy wherein temperature agitation pressure and humidity can be controlled throughout the operation Biologists biophysicists physicists electron microscopists and medical researchers will find this book extremely useful Some Biological Techniques in Electron Microscopy D. F. Parsons, Some biological techniques in electron microscopy, ed Donald Frederick Parsons,

Biological Electron Microscopy Michael J. Dykstra, Laura E. Reuss, 2003-12-31 Electron microscopy is frequently portrayed as a discipline that stands alone separated from molecular biology light microscopy physiology and biochemistry among other disciplines It is also presented as a technically demanding discipline operating largely in the sphere of black boxes and governed by many absolute laws of procedure At the introductory level this portrayal does the discipline and the student a disservice The instrumentation we use is complex but ultimately understandable and more importantly repairable The procedures we employ for preparing tissues and cells are not totally understood but enough information is available to allow investigators to make reasonable choices concerning the best techniques to apply to their particular problems There are countless specialized techniques in the field of electron and light microscopy that require the acquisition of specialized knowledge particularly for interpretation of results electron tomography and energy dispersive spectroscopy immediately come to mind but most laboratories possessing the equipment to effect these approaches have specialists to help the casual user The advent of computer operated electron microscopes has also broadened access to these instruments allowing users with little technical knowledge about electron microscope design to quickly become operators This has been a welcome advance because earlier instruments required a level of knowledge about electron optics and vacuum systems to produce optimal photographs and to avoid crashing the instruments that typically made it difficult for beginners Advanced Techniques in Biological Electron Microscopy J.K. Koehler, 2012-12-06 The past decade has seen a remarkable increase in the use of electron microscopy as a research tool in biology and medicine Thus most institutions of higher learning now boast several electron optical laboratories having various levels of sophistication Training in the routine use of electron optical equipment and interpretation of results is no longer restricted to a few prestigious centers On the other hand techniques

utilized by research workers in the ultrastructural domain have become extremely diverse and complex. Although a large number of quite excellent volumes of electron microscopic technique are now dedicated to the basic elements available which allow the novice to acquire a reasonable introduction to the field, relatively few books have been devoted to a discussion of more advanced technical aspects of the art. It was with this view that the present volume was conceived as a handy reference for workers already having some background in the field as an information source for those wishing to shift efforts into more promising techniques or for use as an advanced course or seminar guide. Subject matter has been chosen particularly on the basis of pertinence to present research activities in biological electron microscopy and emphasis has been given those areas which seem destined to greatly expand in usefulness in the near future.

Biological Techniques in Electron

Microscopy Clinton J. Dawes, 1971

Membranes, Mitochondria, and Connective Tissues Isidore Gersh, 2012-12-02

Submicroscopic Cytochemistry Volume II: Membranes, Mitochondria, and Connective Tissues presents laboratory findings and theoretical aspects of the cytochemistry of cellular membranes, mitochondria, and connective tissues. Emphasis is on the molecular and macromolecular organization of cellular membranes along with the origin and distribution of the major macromolecular aggregates of connective tissue. This volume consists of 11 chapters and begins by discussing the results of cytochemical studies on lipid and protein components of membranes in acinar and hepatic cells of the murine pancreas. The following chapters focus on densitometric studies of lipid membranes in pancreatic acinar cells of the mouse, the distribution of lipids and proteins in mitochondria of hepatic and exocrine pancreatic cells of adult mice, and of nucleic acids in mitochondria of embryonic cells and possible precursor granules in fibroblasts, chondrocytes, and osteoblasts. The distribution of DNA and of soluble and insoluble RNAs in chondrocytes of the epiphyseal plate of the rat tibia is also examined along with vascularity in tendons of young rats. This monograph will be of interest to cytochemists, biochemists, and molecular biologists.

Methods in Virology Karl Maramorosch, Hilary Koprowski, 2014-06-28. *Methods in Virology Volume V* focuses on the methods used in virology including hybridization, gel electrophoresis, freeze etching technique, and ultracentrifugation. The selection first offers information on the fusion of cells for virus studies and production of cell hybrids, approaches to ultracentrifugation, and polyacrylamide gel electrophoresis of viral RNA. Discussions focus on applications to virological problems and analysis of results, analysis of the distribution of RNA on polyacrylamide gels after electrophoresis, and biological analysis of DNA components. The book then examines the polyacrylamide gel electrophoresis of viral proteins, DNA, RNA, and DNA-DNA hybridization in virus research, and techniques of RNA-DNA hybridization in solution for the study of viral transcription. Topics include preparation of nucleic acids, hybridization and elution procedures that minimize RNA degradation, and procedures for acrylamide gel electrophoresis. The text takes a look at freeze etching technique for the study of virus ultrastructure, procedures to increase virus yield from infected plants, and the immunoperoxidase technique. Concerns include principles of the immunoperoxidase technique, histochemical detection of peroxidase activity, sequence of events in

virus infection and factors affecting virus yield The selection is a valuable source of data for researchers interested in the methods employed in virology *U.S. Environmental Protection Agency Library System Book Catalog* United States. Environmental Protection Agency. Library Systems Branch,1975

Proteins and Nucleic Acids Isidore Gersh,2012-12-02 Submicroscopic Cytochemistry Volume I Proteins and Nucleic Acids presents laboratory findings and theoretical aspects involved or derived from submicroscopic cytochemistry study of proteins and nucleic acids It is a two volume book encompassing 14 chapters covering three major topics the pattern of distribution of nucleic acids at the molecular level in various cells and states of activity and in relation to protein synthesis the molecular and macromolecular organization of cellular membranes and the origin and distribution of the major macromolecular aggregates of connective tissue After a brief introduction to the aspects of submicroscopic cytochemistry the book discusses morphology with emphasis on the distribution of cell components and their organization in cells at the macromolecular level It then presents developed methods to preserve and selectively identify proteins nucleic acids lipids acid mucopolysaccharides and molecular aggregates very nearly in the position they occupied in the living state Chapters 8 to 12 describe DNA molecular patterns during cell differentiation and cell maturation and the alteration of these patterns in certain mouse cells A discussion on DNA molecular patterns during metaplasia of stratified squamous mouse epithelium and of spinal ganglion cells during regeneration is provided The concluding chapters examine DNA organization during mitotic cycle in *Drosophila* eggs and the persistence of chromosome individuality during interphase This book is a valuable source of information for cytochemists cell biologists cell researchers and protein nucleic acid enthusiasts who wish to expand their knowledge on comprehensive cytochemistry laboratory study

International Review of Cytology ,2001-06-12 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research

Methods in Membrane Biology Edward D. Korn,2013-11-21 The contributions of electron microscopy to membrane biology have been indispensable and at the same time disappointing Membranes were known to exist before the advent of electron microscopy and general principles of their composition and molecular organization had been deduced from permeability and electrical conductivity measurements polarized light microscopy and X ray diffraction On the other hand the complexities of the many intracellular membranes and membranous organelles were really not suspected until they were observed by the electron microscopist One then had further hopes that the high resolution of the electron microscope theoretically it can resolve atomic distances would allow the visualization of the molecular architecture of membranes and lead directly to an understanding of structure and function at the molecular level This expectation has been largely unrealized Because of the great difficulties encountered in the preparation of

biological material because of the uncertainty of the chemistry of staining and because of numerous electron optical artifacts it has been a major challenge just to rationalize the observed images in terms of the known facts let alone to utilize the images to expand our knowledge of the molecular structure of biological membranes The many differences among membranes with respect to function and composition are lost in the universal trilamellar image Perhaps the one major exception to this and the major structural contribution of electron microscopy at the molecular level has come from freeze etch electron microscopy

Introduction to Electron Microscopy Saul Wischnitzer,1981

Low-Temperature Microscopy and Analysis Patrick Echlin,2013-11-11 The frozen hydrated specimen is the principal element that unifies the subject of low temperature microscopy and frozen hydrated specimens are what this book is all about Freezing the sample as quickly as possible and then further preparing the specimen for microscopy or microanalysis whether still embedded in ice or not there seem to be as many variations on this theme as there are creative scientists with problems of structure and composition to investigate Yet all share a body of com mon fact and theory upon which their work must be based Low Temperature Microscopy and Analysis provides for the first time a comprehensive treatment of all the elements to which one needs access What is the appeal behind the use of frozen hydrated specimens for biological electron microscopy and why is it so important that such a book should now have been written If one cannot observe dynamic events as they are in progress rapid specimen freezing at least offers the possibility to trap structures organelles macro molecules or ions and other solutes in a form that is identical to what the native structure was like at the moment of trapping The pursuit of this ideal becomes all the more necessary in electron microscopy because of the enormous increase in resolution that is available with electron optical instruments compared to light optical microscopes

Biology of Parasitic Spirochaetes Russell C. Johnson,2013-10-22 Approx 417 pages

Smooth Muscle Edwin Daniel,2013-03-09 The study of the actions of drugs on smooth muscle has been a preoccupation of many pharmacologists almost from the beginning of the discipline To a considerable degree the development of theories to explain drug actions on smooth muscle has occurred somewhat independently of the development of our knowledge of the physiology biochemistry and biophysics of smooth muscle This knowledge has developed rapidly in the past decade and some of its consequences for our understanding of drug receptor interactions in smooth muscle have not always been fully appreciated or accepted One of the purposes of this volume is to provide pharmacologists with some understanding of the physiology biophysics and bio chemistry of smooth muscle and of related advances in methodology so as to facilitate the incorporation of such knowledge and related methods into future pharmacological studies of smooth muscle and drug interactions Another purpose of the book is to provide both graduate students and in vestigators in pharmacology and related disciplines with a summary of the numerous methods that have evolved or are available for the study of drug and smooth muscle interactions and in particular to highlight their possible uses and limitations Perhaps because of the diversity in content and difficulty of these methods there has to our knowledge never been a previous attempt to bring them together

in one place We have not of course succeeded entirely in this objective

Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1972

Physiology of Membrane Disorders Thomas E. Andreoli,Darrell D. Fanestil,Joseph F. Hoffman,Stanley G. Schultz,2013-11-11 The second edition of *Physiology of Membrane Disorders* represents an extensive revision and a considerable expansion of the first edition Yet the purpose of the second edition is identical to that of its predecessor namely to provide a rational analysis of membrane transport processes in individual membranes cells tissues and organs which in turn serves as a frame of reference for rationalizing disorders in which derangements of membrane transport processes play a cardinal role in the clinical expression of disease As in the first edition this book is divided into a number of individual but closely related sections Part V represents a new section where the problem of transport across epithelia is treated in some detail Finally Part VI which analyzes clinical derangements has been enlarged appreciably

THE EDITORS xi Preface to the First Edition The purpose of this book is to provide the reader with a rational frame of reference for assessing the pathophysiology of those disorders in which derangements of membrane transport processes are a major factor responsible for the clinical manifestations of disease In the present context we use the term membrane transport to refer to those molecular processes whose cardinal function broadly speaking is processes in a catholic sense the vectorial transfer of molecules either individually or as ensembles across biological interfaces the latter including those interfaces which separate different intracellular compartments the cellular and extracellular compartments and secreted fluids such as glomerular filtrate and extracellular fluids

Membrane Physiology T.E. Andreoli,2013-04-17

Membrane Physiology is a soft cover book containing portions of *Physiology of Membrane Disorders* published in larger hard cover form in 1978 The parent volume was divided into five parts described in detail in the Preface to the hard cover edition which is reproduced in this volume The present version of *Membrane Physiology* incorporates the first three of these parts including a section on the Nature of Biological Membranes a section on Methods for Studying Membranes and a section on General Problems in Membrane Biology It is the hope of the Editors that this smaller volume will be of value to individuals interested in general physiology the methods for studying general physiology and its potential application to problems of clinical and physiological relevance The Preface to *Physiology of Membrane Disorders* indicates our general reasoning for developing such a volume

THOMAS E ANDREOLI JOSEPH F HOFFMAN DARRELL D FANESTIL vii Preface to *Physiology of Membrane Disorders* The purpose of this book is to provide the reader with a rational frame of reference for assessing the pathophysiology of those disorders in which derangements of membrane transport processes are a major factor responsible for the clinical manifestations of disease

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