
Methods in Cell Biology

VOLUME 56

Video Microscopy

Edited by

Greenfield Sluder

David E. Wolf



Prepared under the auspices of the American Society for Cell Biology

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Video Microscopy Leslie Wilson, Greenfield Sluder, Paul T. Matsudaira, David E. Wolf, 1998-02-26 Video microscopy is used extensively in many life and biomedical science disciplines today and is a useful tool for both cell biologists and students This book presents how to track the dynamic changes that take place in the structure of living cells and in reconstituted preparations using video and digital imaging microscopy Basic information principles and applications are also covered as well as more specialized video microscopy techniques Chapters cover the commonly used video technologies in biological research Nontechnical presentation of principles Emphasis on the practical aspects of instrument use Covers pitfalls in instrument uses that can lead to artifacts Authors are leaders in the design and application of video methods to biological microscopy Presentation of material tailored for the established researcher that has little experience with video methods Examples are extensively illustrated with photographs

Methods in Cellular Imaging Ammasi Periasamy, 2013-05-27 Advances in technology have revolutionized the development of light microscopy techniques in biomedical research thus improving visualization of the microstructure of cells and tissues under physiological conditions Fluorescence microscopy methods are non contact and non invasive and provide high spatial and temporal resolution that other laboratory techniques cannot This well illustrated book targets graduate students and scientists who are new to the state of the art fluorescence microscopy techniques used in biological and clinical imaging It explains basic concepts and imaging procedures for wide field confocal multiphoton excitation fluorescence resonance energy transfer FRET lifetime imaging FLIM spectral imaging fluorescence recovery after photobleaching FRAP optical tweezers total internal reflection high spatial resolution atomic force microscopy AFM and bioluminescence imaging for gene expression The usage of these techniques in various biological applications including calcium pH membrane potential mitochondrial signaling protein protein interactions under various physiological conditions and deep tissue imaging is clearly presented The authors describe the approaches to selecting epifluorescence microscopy the detectors and the image acquisition and processing software for different biological applications Step by step directions on preparing different digital formats for light microscopy images on websites are also provided

Methods in Cell-Matrix Adhesion Josephine Adams, 2002-06-12 Critically acclaimed for more than 25 years the *Methods in Cell Biology* series provides an indispensable tool for the researcher Each volume is carefully edited by experts to contain state of the art reviews and step by step protocols Techniques are described completely so that methods are made accessible to users This volume *Methods of Cell Matrix Adhesion* contains integrated coverage on cell matrix adhesion methods It brings the classical methodologies and the latest techniques together in one concise volume This coverage includes experimental protocols and their conceptual background for all aspects of cell matrix adhesion research the extracellular matrix adhesion receptors and the growing number of functional applications of matrix adhesion in molecular cell biology Also covered is the purification of the extracellular matrix to functional analyses of cellular responses

Digital Microscopy Greenfield Sluder, David E. Wolf, 2007-04-26 The previous edition of this book marked the shift in technology from video to digital camera use with microscope use in biological science This new edition presents some of the optical fundamentals needed to provide a quality image to the digital camera Specifically it covers the fundamental geometric optics of finite and infinity corrected microscopes develops the concepts of physical optics and Abbe's theory of image formation presents the principles of Kohler illumination and finally reviews the fundamentals of fluorescence and fluorescence microscopy The second group of chapters deals with digital and video fundamentals how digital and video cameras work how to coordinate cameras with microscopes how to deal with digital data the fundamentals of image processing and low light level cameras The third group of chapters address some specialized areas of microscopy that allow sophisticated measurements of events in living cells that are below the optical limits of resolution Expands coverage to include discussion of confocal microscopy not found in the previous edition Includes traps and pitfalls as well as laboratory exercises to help illustrate methods

Correlative Light and Electron Microscopy II, 2014-09-30 This new volume of *Methods in Cell Biology* looks at methods for analyzing correlative light and electron microscopy CLEM With CLEM people try to combine the advantages of both worlds i.e. the dynamics information obtained by light microscopy and the ultrastructure as provided by electron microscopy This volume contains the latest techniques on correlative microscopy showing that combining two imaging modalities provides more than each technique alone Most importantly it includes the essential protocols including tips tricks and images for you to repeat these exciting techniques in your own lab With cutting edge material this comprehensive collection is intended to guide researchers for years to come Covers sections on model systems and functional studies imaging based approaches and emerging studies Chapters are written by experts in the field Cutting edge material Second of two volumes dedicated to Correlative Light and Electron microscopy CLEM

Nuclear Pore Complexes and Nucleocytoplasmic Transport - Methods, 2014-05-20 Volume 122 of *Methods in Cell Biology* describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems including mammalian cells *Xenopus* *C. elegans* yeast The volume enables investigators to analyze nuclear pore complex structure assembly and dynamics to evaluate protein and RNA trafficking through the nuclear envelope and to design in vivo or in vitro assays appropriate to their research needs Beyond the study of nuclear pores and transport as such these protocols will also be helpful to scientists characterizing gene regulation signal transduction cell cycle viral infections or aging The NPC being one of the largest multiprotein complexes in the cell some protocols will also be of interest for people currently characterizing other macromolecular assemblies This book is thus designed for laboratory use by graduate students technicians and researchers in many molecular and cellular disciplines Describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems mammalian cells *Xenopus* *C. elegans* yeast Chapters are written by experts in the field Cutting edge material

Methods for Analysis of

Golgi Complex Function ,2013-11-26 This new volume of Methods in Cell Biology looks at methods for analyzing of golgi complex function Chapters cover such topics as in vitro reconstitution systems fluorescence based analysis of trafficking in mammalian cells and high content screening With cutting edge material this comprehensive collection is intended to guide researchers for years to come Covers sections on model systems and functional studies imaging based approaches and emerging studies Chapters are written by experts in the field Cutting edge material Microtubules: in vivo ,2010-09-24 Microtubules in vivo includes chapters by experts around the world on many aspects of microtubule imaging in living and fixed cells assays to study microtubule function in a wide array of model organisms and cultured cells high resolution approaches to study of the cytoskeleton The authors share their years of experience outlining potential pitfalls and critical factors to consider in experimental design experimental implementation and data interpretation Includes chapters by experts around the world on many aspects of microtubule imaging in living and fixed cells assays to study microtubule function in a wide array of model organisms and cultured cells high resolution approaches to study of the cytoskeleton The authors share their years of experience outlining potential pitfalls and critical factors to consider in experimental design experimental implementation and data interpretation Nuclear Mechanics and Genome Regulation ,2010-10-12 In recent years new discoveries have made this an exciting and important field of research This exhaustive volume presents comprehensive chapters and detailed background information for researchers working with in the field of nuclear mechanics and genome regulation Both classic and state of the art methods readily adaptable and designed to last the test of time Relevant to clinicians and scientists working in a wide range of fields The Zebrafish: Cellular and Developmental Biology, Part B ,2011-06-02 This volume of Methods in Cell Biology the second of two parts on the subject of zebrafish provides a comprehensive compendium of laboratory protocols and reviews covering all the new methods developed since 1999 Details state of the art zebrafish protocols delineating critical steps in the procedures as well as potential pitfalls Illustrates many techniques in full color Summarizes the Zebrafish Genome Project *Stem Cell Culture* Jennie P. Mather,2011-09-02 The purpose of Stem Cell Culture is to provide a comprehensive resource for researchers in the fields of embryonic fetal and adult stem cell biology to find methods for the purification culture and differentiation of these cell types with the main emphasis on the maintenance of the stem cell phenotype in vitro This volume will be the first to broadly cover multiple types of stem cell culture from different ages organs and species Authors will focus on the practical do's and don'ts of isolating and culturing these cell types and feel free to use illustrative data or diagrams wherever this improves the comprehension of the reader This should allow the reader to compare and contrast techniques and make this a standard reference for those in the field or desiring to start stem cell culture Describes techniques in stem cell research Delineates critical steps and potential pitfalls for each method Covers specific procedures in dealing with Human Embryonic Stem Cells **Building a Cell from its Component Parts** ,2015-05-20 The cell interior is another world that we are only beginning to explore Although there

are a number of approaches for examining the inner workings of the cell the reductionist approach of building up complexity appeals to many with physical science and engineering backgrounds This volume of *Methods in Cell Biology* spans a range of spatial scales from single protein molecules to vesicle and cell sized structures capable of complex behaviors Contributions include methods for combining different motors and cytoskeletal components in defined ways to produce more complex behaviors methods to combine cytoskeletal assemblies with fabricated devices such as chambers or pillar arrays reconstituting membrane fission and fusion reconstituting important biological processes that normally take place on membrane surfaces and methods for encapsulating protein machines within vesicles or droplets Covers sections on model systems and functional studies imaging based approaches and emerging studies Chapters are written by experts in the field Cutting edge material

Cilia: Model Organisms and Intraflagellar Transport, 2009-12-01 Cilia are highly conserved organelles that serve motile functions sensory functions or both These organelles power cell movement generate fluid flow in various organs act as sensors of the extracellular environment and have been modified for various specialized tasks such as light reception and smell Defects in these ubiquitous organelles lead to a broad array of human genetic disorders that range from polycystic kidney disease retinal degeneration epilepsy and infertility to developmental defects such as situs inversus and polydactyly This volume is the third in a three part series on cilia that focuses on the use of model organisms to gain insight into ciliary function and on the process of intraflagellar transport that is essential for the assembly and maintenance of ciliary structures Includes both classic and state of the art methods readily adaptable across model systems and designed to last the test of time Covers forward and reverse genetic analysis of IFT and biochemical methods to define the role of IFT components Methods presented cover molecular genetic and biochemical approaches to ciliary function in model organisms

Microtubules, in vitro John J. Correia, Leslie Wilson, 2010-07-03 There continues to be intense interest in the microtubule cytoskeleton the assembly structure and regulation of microtubules and the numerous motors and accessory proteins that control cell cycle dynamics organization and transport The field continues to grow and explore new aspects of these issues driven immensely by developments in optical imaging and tracking techniques This volume complemented by the forthcoming companion volume by Cassimeris and Tran brings together current research and protocols in the field of microtubules in vitro and will serve as a valuable tool for cell biologists biophysicists and pharmacologists who study the microtubule cytoskeleton as well as for researchers in the biomedical and biotechnology communities with interest in developing drugs that target microtubules MAPS and motors Chapters reflect both experimental procedures and new developments in the field of microtubule in vitro research Combines classical approaches and modern technologies Presents easy to use protocols and thorough background information compiled by leaders in the field

Biophysical Tools for Biologists, 2009-01-19 Driven in part by the development of genomics proteomics and bioinformatics as new disciplines there has been a tremendous resurgence of interest in physical methods to investigate macromolecular structure and

function in the context of living cells This volume in Methods in Cell Biology is devoted to biophysical techniques in vivo and their applications to cellular biology Biophysical Tools for Biologists covers methods oriented chapters on fundamental as well as cutting edge techniques in molecular and cellular biophysics This book is directed toward the broad audience of cell biologists biophysicists pharmacologists and molecular biologists who employ classical and modern biophysical technologies or wish to expand their expertise to include such approaches It will also interest the biomedical and biotechnology communities for biophysical characterization of drug formulations prior to FDA approval Describes techniques in the context of important biological problems Delineates critical steps and potential pitfalls for each method **The Neuronal**

Cytoskeleton, Motor Proteins, and Organelle Trafficking in the Axon ,2016-01-12 The Neuronal Cytoskeleton Motor Proteins and Organelle Trafficking in the Axon a new volume in the Methods in Cell Biology series continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods in neuronal cells and includes sections on such topics as actin transport in axons and neurofilament transport Covers an increasingly appreciated field in cell biology Includes both established and new technologies Contributed by experts in the field **Avian**

Embryology ,2011-09-21 This revised edition will continue to serve as the most complete and up to date guide to the use of the avian embryo in studies of vertebrate development It will include new approaches to analysis of the chick genome gene knock out studies using RNA interference morpholinos and other cutting edge techniques As with the original edition emphasis has been placed on providing practical guidance highlighting potentials and pitfalls of all key cell biological and embryological techniques fully revised second edition organized into basic and advanced Methods new section on Functional Genomics Mitochondria Liza A. Pon, Eric A. Schon, 2011-08-10 This book provides an update on the step by step how to

methods for the study mitochondrial structure function and biogenesis contained in the successful first edition As in the previous edition the biochemical cell biological and genetic approaches are presented along with sample results interpretations and pitfalls from each method Centrosomes and Spindle Pole Bodies Robert E. Palazzo, Trisha N. Davis, 2001-09-21 Containing a comprehensive collection of convenient and quantitative methods for studying centrosomes spindle pole bodies and related organelles this text is a valuable resource for researchers and others interested in studying the role of these organelles in cell replication Chapters outlining the role of these organelles in other cell functions are also included and a wide variety of experimental systems for analyzing these organelles are presented Detailed protocols for experiments are contained in each chapter for researchers to perform in their own labs This volume outlines key methodologies used to analyze centrosomes and spindle pole bodies their replication and reproduction in the clear well illustrated style of the Methods in Cell Biology series **The Zebrafish: Disease Models and Chemical Screens**

,2017-01-25 The Zebrafish Disease Models and Chemical Screens

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