Nikon Te2000 U Manual

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MDPI

This volume presents a range of different techniques that have been used to characterize the structure and function of the endoplasmic reticulum (ER) in higher plants. Chapters guide readers through application of modern microscopy techniques by fluorescence and electron microscopy, new protocols for analysing ER network structure, methods to purify and analyse ER membrane structure and to study protein glycosylation, protocols to study the unfolded protein response, and the role of the ER in autophagy. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, The Plant Endoplasmic Reticulum: Methods and Protocols aims to ensure successful results in the further study of this vital field.

Confocal Scanning Optical Microscopy and Related Imaging Systems Springer

This book is a printed edition of the Special Issue "Single Cell Analysis in Biotechnology and Systems Biology" that was published in IJMS

The Journal of Cell Biology Frontiers Media SA

The decade that has passed since publication of the second edition of this textbook has not only witnessed a tremendous increase in knowledge within the ? eld of and- logy, but also seen the ? eld itself achieve a newfound status within the medical p- fession. Knowledge and status have been of mutual bene? t to the ? eld and the growing critical mass of diagnostic and therapeutic possibilities have caused andrology to be recognized as a medical subspecialty in some countries such as Germany, Poland, and Estonia. The European Academy of Andrology (EAA) served as a pacemaker for this development and continues to strive for establishment of andrology as a clinical ? eld. Well-designed curricula and qualifying examinations have contributed to the of? cial recognition of andrology as a speciality. This recognition of the ? eld helps patients with andrological problems to ? nd the specialist they seek. This textbook summarizes the current state of knowledge in the ? eld of andrology. It is a source of knowledge to all those who are or want to become andrologists. In addition, as andrology is clearly an interdisciplinary ? eld, this book may serve as a compendium and source of reference for all those physicians and biologists active in neighboring areas, who want to obtain an overview of andrology and who require information on special problems. The extensive references are timely and up to date.

Piezo Channels **Frontiers Media SA**

Time-correlated Single Photon Counting has been written in the hope that by relating the authors' experiences with a variety of different single photon counting systems, they may provide a useful service to users and potential users of this formidably sensitive technique. Of all the techniques available to obtain information on the rates of depopulation of excited electronic singlet states of molecular species, monitoring of fluorescence provides, in principle, the simplest and most direct measure of concentration. This volume comprises eight chapters, with the first focusing on the time dependence and applications of fluorescence. Succeeding chapters go on to discuss basic principles of the single photon counting lifetime measurement; light sources; photomultipliers; electronics; data analysis; nanosecond time-resolved emission spectroscopy; time dependence of fluorescence anisotropy. This book will be of interest to practitioners in the field of chemistry.

Quantitative Imaging in Cell Biology Humana Press

This book focuses on a group of new materials labeled "graphene oxides." It provides a comprehensive overview of graphene oxide-based nanomaterials in terms of their synthesis, structures, properties, and extensive applications in catalysis, separation, filtration, energy storage and conversion. The book also covers emerging research on graphite oxides and the impact of the research on fundamental and applied sciences.

Oxidative Stress and Signal Transduction Academic Press

In the course of evolution, a great variety of root systems have learned to overcome the many physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.

Andrology Humana Press

Describes the principles and practice of photomicrography for all who contemplate attaching a camera to a microscope.

Observations on the Nature of Civil Liberty Springer Science & Business Media

For around half of the couples who have trouble conceiving the cause of infertility is sperm-related. Intracytoplasmic sperm injection (ICSI) is the most common and successful treatment for male infertility. Here, the pioneers for the technique, along with authorities in the field, describe the underlying science of ICSI and other micromanipulation techniques. Practical advice for performing the techniques is covered in depth, including sperm selection, laser-assisted ICSI, and the use of piezo in ICSI. Examining the safety of ICSI in animal models as well as the impact of ICSI on the health and well-being of the children conceived through the procedure is discussed. This manual is an essential resource for clinical embryologists and laboratory personnel wishing to refine or develop techniques and improve outcomes.

Manual of Intracytoplasmic Sperm Injection in Human Assisted Reproduction Manual of Intracytoplasmic Sperm Injection in Human Assisted Reproduction

Now a routine tool in biomedical and life science research, live cell imaging has made major progress enabling this core biochemical, cell, and molecular biology technique to become even more powerful, versatile, and affordable. In Live Cell Imaging: Methods and Protocols, a panel of expert contributors provide a comprehensive compendium of experimental approaches to live cell imaging in the form of several overview chapters followed by representative examples and case studies covering different aspects of the most current methodology. By examining a range of state-of-the-art protocols extensively validated in complex biological studies, this volume highlights new experimental and instrumental opportunities and helps researchers to select appropriate imaging methods for their specific biological questions and measurement tasks. Written in the highly successful Methods in Molecular BiologyTM series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Live Cell Imaging: Methods and Protocols promises to contribute greatly to the further development and dissemination of this fundamentally important technology which spans across many disciplines including molecular and cell biology, chemistry, physics, optics, engineering, cell physiology, and medicine.

Advanced Time-Correlated Single Photon Counting Techniques Springer Science & Business Media

We are entering a particularly fruitful period in evolutionary genetics, as rapid technological progress transforms the investigation of genetic variation within and between species. Molecular Methods for Evolutionary Genetics is a collection of advanced molecular biology protocols and general overviews intended to represent the essential methods currently bringing evolutionary genetics to fruition. Divided into six thematic sections, this volume covers methods for characterizing genomes, diverse approaches to enrich DNA for subsets of the genome prior to sequencing, and state-of-the-art protocols for sampling genetic variation for genetic mapping studies and population genetic studies (RAD sequencing, Sequenom, microarrays, etc.). The volume concludes by focusing on methods to study candidate genes, from obtaining their sequences and analyzing their transcripts to experimentally manipulating their activities in vivo. Written in the highly successful Methods in Molecular BiologyTM series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and accessible, Molecular Methods for Evolutionary Genetics serves as a rich resource to biologists interested in evolution, whether they be specialists or beginners in molecular biology.

Bio-Carrier Vectors Humana

This detailed book explores techniques used in research efforts to adopt and combine the best capabilities from natural and artificial vector systems to assemble improved delivery technologies aimed for specific applications. The collection discusses vectors other than the traditional viral and non-viral systems and explores ideas for blending the best features of bacteria, nanoparticles, peptides, and hybrid systems for the delivery of biomaterials into cells, as well as a chapter on the application of shotgun proteomics and mass spectrometry as a tool to analyze the proteomic profile changes in cells that result from these interventions. Written in the highly successful Methods in Molecular Biology format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Bio-Carrier Vectors: Methods and Protocols serves as an ideal guide for researchers working toward harnessing the power of multiple vectors in gene and drug delivery.

Science SPIE Press

This detailed volume brings together a diverse collection of stem cell-derived model-based toxicity assays, from those routinely used to those deemed to have considerable potential. With a focus on differentiated tissues, the chapters explore numerous cardiotoxicity applications as well as coverage of neurotoxicity, hepatotoxicity, and more. Written for the Methods in Pharmacology and Toxicology series, the contents of this book aim to enable adoption of these protocols in laboratories that are interested in entering the field as well as to facilitate the transfer of best practices between laboratories that are already actively pursuing these technologies. /divAuthoritative and cutting-edge, Stem Cell-Derived Models in Toxicology serves as a vital resource for researchers aiming to improve risk assessment in drug discovery and design.

Photography with a Microscope Springer Science & Business Media

Neuronal function relies on the establishment of proper connections between neurons and their target cells during development. This basic statement involves several cellular processes, such as neuronal differentiation, the polarized outgrowth of axons and dendrites from differentiated neurons, and the pathfinding of axons towards target cells. The subsequent recognition of complementary synaptic partners finally triggers the formation, maturation, and maintenance of functional synapses. Morphogens are secreted signaling molecules commanding tissue patterning and cell identity during early embryonic development. Remarkably, growing evidence over the last years arising from different invertebrate and vertebrate model organisms has shown that, after cell fate has been established, morphogens also control the precise wiring and function in the developing and mature nervous system. Accordingly, dysfunctions of the signaling pathways activated by these molecules contribute to synaptic disassembly and altered function in diseases affecting the nervous system. We consider it timely to bring together cumulative evidence pointing to crucial roles for signaling activated by different morphogens in the establishment of precise contacts between neurons and their synaptic partners. Therefore, this research topic issue combines review and research articles aimed to cover the functional relevance of such morphogens on the different steps involved in synaptic assembly and function. Diverse model systems of physiological or pathological conditions have been included, as well as different cellular, biochemical and molecular approaches. Altogether, they contribute in different and complementary

ways to build a holistic view of the roles that early development morphogens play during the assembly, maintenance and/or regeneration of functional synapses.

International Journal of Manufacturing Technology and Management John Wiley & Son Limited

This volume explores major light microscopic imaging modalities that can be used to view nervous tissue, and discusses the steps needed to use each of them, and ways to interpret the data. The chapters in this book cover topics such as atlasing of insect brain; neuroanatomical tracing through fluorochrome expression; fluorescent probes for amyloids; or optical clearing for ultramicroscopy of GFP-expressing tissues. In the Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Authoritative and cutting-edge, Neurohistology and Imaging Techniques is a valuable resource for both expert and novice users of major light microscopic imaging techniques, and those interested in exploring alternate imaging tools.

Molecular Biology of the Cell Springer Science & Business Media

Comprehensive coverage of the basic theoretical concepts and applications of dielectrophoresis from a world-renowned expert. Features hot application topics including: Diagnostics, Cell-based Drug Discovery, Sensors for Biomedical Applications, Characterisation and Sorting of Stem Cells, Separation of Cancer Cells from Blood and Environmental Monitoring Focuses on those aspects of the theory and practice of dielectrophoresis concerned with characterizing and manipulating cells and other bioparticles such as bacteria, viruses, proteins and nucleic acids. Features the relevant chemical and biological concepts for those working in physics and engineering

Military Standardization Handbook Academic Press

This book provides a comprehensive introduction to the field of scanning optical microscopy for scientists and engineers. The book concentrates mainly on two instruments: the Confocal Scanning Optical Microscope (CSOM), and the Optical Interference Microscope (OIM). A comprehensive discussion of the theory and design of the Near-Field Scanning Optical Microscope (NSOM) is also given. The text discusses the practical aspects of building a confocal scanning optical microscope or optical interference microscope, and the applications of these microscopes to phase imaging, biological imaging, and semiconductor inspection and metrology.A comprehensive theoretical discussion of the depth and transverse resolution is given with emphasis placed on the practical results of the theoretical calculations and how these can be used to help understand the operation of these microscopes. Provides a comprehensive introduction to the field of scanning optical microscopy for scientists and engineers Explains many practical applications of scanning optical and interference microscopy in such diverse fields as biology and semiconductor metrology Discusses in theoretical terms the origin of the improved depth and transverse resolution of scanning optical and interference microscopes with emphasis on the practical results of the theoretical calculations Considers the practical aspects of building a confocal scanning or interference microscope and explores some of the design tradeoffs made for microscopes used in various applications Discusses the theory and design of near-field optical microscopes Explains phase imaging in the scanning optical and interference microscopes

Structural Interfaces and Attachments in Biology Humana Press

This guide to micromanipulation techniques, for assisted conception in a clinical setting, includes detailed descriptions of all common micromanipulation systems currently in use in IVF laboratories. In explaining how to optimize their successful use, the volume covers state-of-the-art techniques including ICSI, and procedures such as assisted hatching and the blastomere biopsy (for PGD). Valuable information on troubleshooting mechanical and technical difficulties is provided to help professionals ranging from technicians to consultant obstetricians master the techniques.

Endocrine Frailty in the Elderly Humana Press

This tutorial introduces the theory and applications of MTF, used to specify the image quality achieved by an imaging system. It covers basic linear systems theory and the relationship between impulse response, resolution, MTF, OTF, PTF, and CTF. Practical measurement and testing issues are discussed.

Neuroacanthocytosis Syndromes Springer

In the last decade, a large number of major discoveries have shed light on the molecular mechanisms of lymphocyte migration and the anatomy of immune responses. In T-Cell Trafficking: Methods and Protocols, expert researchers explore how the development of novel and cutting-edge techniques, particularly in the field of real-time imaging and genetic manipulation, have led to an increased understanding of lymphocyte trafficking. Written by internationally recognized experts in their respective fields, chapters provide state-of-the-art protocols to study lymphocyte migration and T-cell: endothelial cell interactions in vitro, address various approaches used for direct visualization of the development of the lymphoid system, lymphocyte recirculation, and effector responses in experimental models in vivo, and explore lymphocyte migration and inflammation in the human system. Composed in the highly successful Methods in Molecular BiologyTM series format, each chapter contains a brief introduction, step-by-step methods, a list of necessary materials, and a Notes section which shares tips on troubleshooting and avoiding known pitfalls. Innovative and highly practical, T-Cell Trafficking: Methods and Protocols is an essential manual for newcomers in this ever-expanding and exciting area of research, as well as a valuable addition to more specialized laboratories.

Modern Tools and Techniques to Understand Microbes Humana

No. 2, pt. 2 of November issue each year from v. 19 (1963)-47 (1970) and v. 55 (1972)- contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology, 3d (1963)-10th (1970) and 12th (1972)-