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Intradermal Immunization Marcel B.M. Teunissen 2011-09-15
This volume of Current Topics in Microbiology and Immunology covers diverse topics related to intradermal immunization. The chapters highlight the effectiveness of intradermal immunization in experimental animal models or in clinical practice, all supporting the view that intradermal immunization is at least as good as other immunization routes. Keeping in mind that current vaccines are not specially designed for intradermal immunization, but show comparable efficiency even at reduced dosages, this underlines the great potential for the skin as a vaccination site. Hopefully, the overview in this volume will encourage vaccine designers to focus on this promising immunization route, and in addition, to inspire them to develop vaccines that are especially optimized for intradermal immunization.

Immunocytochemical Lorette C. Javois 1999 Lorette Javois' timely new 2nd edition revises and updates her widely acclaimed collection of step-by-step immunocytochemical methods, one that is now used in many biological and biomedical research programs. The methods are designed for researchers and clinicians who wish to visualize molecules in plant or animal embryos, tissue sections, cells, or organelles. In addition to cutting-edge protocols for purifying and preparing antibodies, light microscopic analysis, confocal microscopy, FACS, and electron microscopy, this revised edition contains many new methods for applying immunocytochemical techniques in the clinical laboratory and in combination with in situ hybridization.

Histology Protocols Tim D. Hewitson 2010 This book provides molecular biologists with the basic histochemical techniques and histologists with the molecular techniques necessary to realize the potential of their resource. Authoritative and cutting-edge, the book covers a wide range of techniques.

Brewing Yeast and Fermentation Christopher Boulton 2013-04-25
Now Available for the First Time in Paperback! This unique volume provides a definitive overview of modern and traditional brewing fermentation. Written by two experts with unrivalled experience from years with a leading international brewer, coverage includes all aspects of brewing fermentation together with the biochemistry, physiology and genetics of brewers' yeast. *Brewing Yeast and Fermentation* is unique in that brewing fermentation and yeast biotechnology are covered in detail from a commercial perspective. Now available for the first time in paperback, the book is aimed at commercial brewers and their ingredient and equipment suppliers (including packaging manufacturers). It is also an essential reference source for students on brewing courses and workers in research and academic institutions. Definitive reference work and practical guide for the industry. Highly commercially relevant yet academically rigorous. Authors from industry leading brewers.

Central Cardiovascular and Respiratory Control: New Techniques, New Directions, New Horizons Vaughan G. Macefield 2021-01-06

Epidermal Langerhans Cells Gerold Schuler 1990-12-26
Epidermal Langerhans Cells focuses on epidermal Langerhans cells (LCs) and the important role they play in the induction of contact hypersensitivity and graft rejection. This in-depth work discusses how these antigen-presenting cells are modulated by various physicochemical agents (such as UV light) and how they can be infected by the AIDS virus. It also reveals that cytokines mediate their development into potent T cell-stimulatory dendritic cells. This comprehensive review covers important experimental

details and methods, and fascinating information on LCs. It also provides an overview of the immune system as it relates to the skin in health and disease. This up-to-date publication is an indispensable resource for all investigative and clinical dermatologists, as well as immunologists interested in antigen-presenting cells.

Fundamentals of Light Microscopy and Electronic Imaging Douglas B. Murphy 2012-08-22 *Fundamentals of Light Microscopy and Electronic Imaging*, Second Edition provides a coherent introduction to the principles and applications of the integrated optical microscope system, covering both theoretical and practical considerations. It expands and updates discussions of multi-spectral imaging, intensified digital cameras, signal colocalization, and uses of objectives, and offers guidance in the selection of microscopes and electronic cameras, as well as appropriate auxiliary optical systems and fluorescent tags. The book is divided into three sections covering optical principles in diffraction and image formation, basic modes of light microscopy, and components of modern electronic imaging systems and image processing operations. Each chapter introduces relevant theory, followed by descriptions of instrument alignment and image interpretation. This revision includes new chapters on live cell imaging, measurement of protein dynamics, deconvolution microscopy, and interference microscopy. PowerPoint slides of the figures as well as other supplementary materials for instructors are available at a companion website: www.wiley.com/go/murphy/lightmicroscopy

Historic Mortars Jan Válek 2012-06-23 This volume focuses on research and practical issues connected with mortars on historic structures. The book is divided into four sections: Characterisation of Historic Mortars, Repair Mortars and Design Issues, Experimental Research into Properties of Repair Mortars, and Assessment and Testing. The papers present the latest work of researchers in their field. The individual contributions were selected from the contributions to the 2nd Historic Mortars Conference, which took place in Prague, September, 22-24, 2010. All papers were reviewed and improved as necessary before publication. This peer review process by the editors resulted in the 34 individual contributions included in here. One extra paper reviewing and summarising State-of-the-Art knowledge covered by this publication was added as a starting and navigational point for the reader. The editors believe that having these papers in print is important and they hope that it will stimulate further research into historic mortars and related subjects.

Whole Slide Imaging Anil V. Parwani 2021-10-29 This book provides up-to-date and practical knowledge in all aspects of whole slide imaging (WSI) by experts in the field. This includes a historical perspective on the evolution of this technology, technical aspects of making a great whole slide image, the various applications of whole slide imaging and future applications using WSI for computer-aided diagnosis The goal is to provide practical knowledge and address knowledge gaps in this emerging field. This book is unique because it addresses an emerging area in pathology for which currently there is only limited information about the practical aspects of deploying this technology. For example, there are no established selection criteria for choosing new scanners and a knowledge base with the key information. The authors of the various chapters have years of real-world experience in selecting and implementing WSI solutions in various aspects of pathology practice. This text also discusses practical tips and pearls to address the selection of a

WSI vendor, technology details, implementing this technology and provide an overview of its everyday uses in all areas of pathology. Chapters include important information on how to integrate digital slides with laboratory information system and how to streamline the "digital workflow" with the intent of saving time, saving money, reducing errors, improving efficiency and accuracy, and ultimately benefiting patient outcomes. **Whole Slide Imaging: Current Applications and Future Directions** is designed to present a comprehensive and state-of-the-art approach to WSI within the broad area of digital pathology. It aims to give the readers a look at WSI with a deeper lens and also envision the future of pathology imaging as it pertains to WSI and associated digital innovations.

Carbon in Earth Robert M. Hazen 2018-12-17 Volume 75 of *Reviews in Mineralogy and Geochemistry* addresses a range of questions that were articulated in May 2008 at the First Deep Carbon Cycle Workshop in Washington, DC. At that meeting 110 scientists from a dozen countries set forth the state of knowledge about Earth's carbon. They also debated the key opportunities and top objectives facing the community. Subsequent deep carbon meetings in Beijing, China (2010), Novosibirsk, Russia (2011), and Washington, DC (2012), as well as more than a dozen smaller workshops, expanded and refined the DCO's decadal goals. The 20 chapters that follow elaborate on those opportunities and objectives.

Resistance to Tyrosine Kinase Inhibitors Daniele Focosi 2016-11-07 The volume will serve as a primer on tyrosine kinase signaling and its importance in cancer. The volume will first introduce the common denominators of small-molecule and antibody-derived inhibitors, as well as the general phenomenon of resistance. The volume will then detail resistance to the most commonly used classes of tyrosine kinase inhibitors, and will focus specific chapters on resistance to BCR-ABL1, FLT3, angiokinase family members, and ALK inhibitors.

The Plant Cell Cycle Dirk Inzé 2011-06-27 In recent years, the study of the plant cell cycle has become of major interest, not only to scientists working on cell division *sensu strictu*, but also to scientists dealing with plant hormones, development and environmental effects on growth. The book *The Plant Cell Cycle* is a very timely contribution to this exploding field. Outstanding contributors reviewed, not only knowledge on the most important classes of cell cycle regulators, but also summarized the various processes in which cell cycle control plays a pivotal role. The central role of the cell cycle makes this book an absolute must for plant molecular biologists.

Endocytosis in Plants Jozef Šamaj 2012-10-02 Endocytosis is a fundamental cellular process by means of which cells internalize extracellular and plasma membrane cargos for recycling or degradation. It is important for the establishment and maintenance of cell polarity, subcellular signaling and uptake of nutrients into specialized cells, but also for plant cell interactions with pathogenic and symbiotic microbes. Endocytosis starts by vesicle formation at the plasma membrane and progresses through early and late endosomal compartments. In these endosomes cargo is sorted and it is either recycled back to the plasma membrane, or degraded in the lytic vacuole. This book presents an overview of our current knowledge of endocytosis in plants with a main focus on the key molecules undergoing and regulating endocytosis. It also provides up to date methodological approaches as well as principles of protein, structural lipid, sugar and microbe internalization in plant cells. The individual chapters describe clathrin-mediated and fluid-phase endocytosis, as well as flotillin-mediated endocytosis and internalization of microbes. The book was written for a broad spectrum of readers including students, teachers and researchers.

Cancer Research 2005-05

Bacterial Spore Formers Ezio Ricca 2004 This comprehensive book describes in detail the most topical emerging areas of scientific importance involving the use of spores and covers their use as probiotics in humans and animals and also with plants. In addition authors present the emerging use of the spore as a tool for nanobiotechnology where the spore can be used for the efficient display of heterologous proteins on the spore surface. The use of this technology and systematics of spore forming bacteria, and the architecture and assembly of spores. The

innovative topics covered in this book will be of particular interest to scientists working in all areas of probiotic research and vaccine technology and is recommended reading for microbiologists involved with *Bacillus* spp. and other spore forming bacteria.

Spermatogenesis Lori Barnard 2012-09-20 Deficiencies in sperm function are usually the result of spermatogenic defects. Spermatogenesis is a biologically complex and essential process during which spermatogonia undergo meiotic recombination, reduction of the genome to a haploid state, and extensive cellular modifications that result in a motile cell capable of traversing the female reproductive tract, withstanding various potential assaults to viability, and finally successfully fertilizing a mature oocyte to give rise to an embryo. Defects in any step of spermatogenesis or spermatogenesis can lead to male infertility, a disease that affects approximately 5-7% of the population. *Spermiogenesis and Spermatogenesis: Methods and Protocols* details protocols used in the study of spermatogenesis, clinical analytical protocols, and basic techniques used in clinical andrology laboratories, such as obtaining accurate results for a sperm count, and advanced procedures, such as genome-wide genetic study tools and evaluation of nuclear proteins. Written in the 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 protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Spermiogenesis and Spermatogenesis: Methods and Protocols* is unique in its breadth, and will be a useful reference for clinicians and researchers alike.

Calcium Phosphates in Biological and Industrial Systems Zahid Amjad 2013-11-27 *Calcium Phosphates in Biological and Industrial Systems* provides a comprehensive discussion on calcium phosphates in the diverse areas of their applications. The authors are all respected specialists in their particular fields, possessing wide knowledge and experience and able to analyze recent results and relate them to their respective areas of expertise. New information, as well as a review of current concepts, highlights the individual contributions. Due to the broad scope of the subject covered and the large number of contributions, this book is divided into three parts. Whilst each section contains a basic theme, there is a considerable overlapping of ideas and approaches. This reflects the excitement and interdisciplinary nature of investigations by researchers interested in dissimilar aspects of calcium phosphates.

Considering the general interest in calcium phosphates, *Calcium Phosphates in Biological and Industrial Systems* is directed at an audience of researchers in the fields of biology, chemistry, dentistry, geology, chemical engineering, environmental engineering, and medicine. It will also be useful to technology-focused researchers in industry whose investigations might be related directly or indirectly to calcium phosphates.

The Primo Vascular System Kwang-Sup Soh 2011-11-04

Proceedings from the first International Symposium on Primo Vascular System 2010 (ISPS 2010) with special topics on cancer and regeneration was held in Jecheon, Korea during September 17-18, 2010. Includes coverage of new study results that have better revealed the functional aspects of PVS, including its roles in the areas of regenerative medicine and cancer.

Forensic Science Elsa Lee 2015-12-01 This new edition of *Forensic Science: The Basics* provides a fundamental background in forensic science as well as criminal investigation and court testimony. It describes how various forms of data are collected, preserved, and analyzed, and also explains how expert testimony based on the analysis of forensic evidence is presented in court. The book

The Claustrum John R. Smythies 2013-11-11 The present day is witnessing an explosion of our understanding of how the brain works at all levels, in which complexity is piled on complexity, and mechanisms of astonishing elegance are being continually discovered. This process is most developed in the major areas of the brain, such as the cortex, thalamus, and striatum. The *Claustrum* instead focuses on a small, remote, and, until recently, relatively unknown area of the brain. In recent years, researchers have come to believe that the claustrum is concerned with consciousness, a bold hypothesis supported by the claustrum's

two-way connections with nearly every other region of the brain and its seeming involvement with multisensory integrations—the hallmark of consciousness. The claustrum, previously in a humble position at the back of the stage, might in fact be the conductor of the brain's orchestra. The Claustrum brings together leading experts on the claustrum from the varied disciplines of neuroscience, providing a state-of-the-art presentation of what is currently known about the claustrum, promising lines of current research (including epigenetics), and projections of new lines of investigation on the horizon. Develops a unifying hypothesis about the claustrum's role in consciousness, as well as the integration of sensory information and other higher brain functions. Discusses the involvement of the claustrum with autism, schizophrenia, epilepsy, Alzheimer's disease, and Parkinson's disease Coverage of all aspects of the claustrum, from its evolution and development to promising new lines of research, including epigenetics, provides a platform and point of reference for future investigative efforts

Stomatal Function Eduardo Zeiger 1987

Rietveld Refinement in the Characterization of Crystalline

Materials Igor Djerdj 2019-01-28 This book is a printed edition of the Special Issue "Rietveld Refinement in the Characterization of Crystalline Materials" that was published in *Crystals*

Materials Characterization Yang Leng 2009-03-04 This book covers state-of-the-art techniques commonly used in modern materials characterization. Two important aspects of characterization, materials structures and chemical analysis, are included. Widely used techniques, such as metallography (light microscopy), X-ray diffraction, transmission and scanning electron microscopy, are described. In addition, the book introduces advanced techniques, including scanning probe microscopy. The second half of the book accordingly presents techniques such as X-ray energy dispersive spectroscopy (commonly equipped in the scanning electron microscope), fluorescence X-ray spectroscopy, and popular surface analysis techniques (XPS and SIMS). Finally, vibrational spectroscopy (FTIR and Raman) and thermal analysis are also covered.

Circulating Tumor Cells Mark Jesus M. Magbanua 2017-09-15 This volume explores various approaches for enrichment, detection, isolation, and molecular profiling of circulating tumor cells (CTCs). Each chapter provides comprehensive descriptions and guidelines on how to perform innovative experiments in CTC research. Included are protocols for capture of CTCs via filtration and density gradient centrifugation; microfluidic and immunomagnetic separation of CTCs; detection of CTCs by immunocytochemistry, fluorescence in situ hybridization, and flow cytometry; assays designed for genomic characterization and functional analyses of CTCs, and many more. Written in the highly successful *Methods in Molecular Biology* series format, the chapters in this book 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. Cutting-edge and authoritative, *Circulating Tumor Cells: Methods and Protocols* is a valuable resource for laboratory researchers and clinicians who are interested in furthering their studies on CTCs.

Color Test Reagents/kits for Preliminary Identification of Drugs of Abuse 2000

Aspergillus Fumigatus and Aspergillosis Jean-Paul Latgé 2009 Offers the latest insights into the fundamental biology and pathogenesis of *A. fumigatus*. Provides a combined synopsis of both *A. fumigatus* and its diseases and therapies. Encompasses the most up-to-date knowledge to serve as a resource guide for the next decade of study on this organism and the many diseases it causes. Covers the fundamental biology of *A. fumigatus* including specific features in genetics, biochemistry, and cell biology that can explain the virulence of this opportunistic pathogen. Discusses the wide range of clinical infection, plus the latest diagnostic and treatment strategies, in specific patient populations.

Gastrointestinal Immunity and Crosstalk with Internal Organs in Fish Nan Wu 2021-11-25

The Purple Phototrophic Bacteria C.N. Hunter 2008-10-11 Here is a comprehensive survey of all aspects of these fascinating bacteria, metabolically the most versatile organisms on Earth. It

compiles 48 chapters written by leading experts, who highlight the huge progress made in studies of these bacteria since 1995. Marine Benthic Nematode Molecular Protocol Handbook (nematode Barcoding) 2011

Mouse Models of Human Cancer Eric C. Holland 2004-08-27 Mice have become the species of choice for modeling the complex interactions between tumor cells and the host environment.

Mouse genetics are easily manipulated, and a growing array of technology exists for this purpose. Mouse models allow investigators to better understand causal relationships between specific genetic alterations and tumors, utilize new imaging techniques, and test novel therapies. Recent developments along these lines show great promise for the development of new anti-cancer treatments. *Mouse Models of Human Cancer* provides researchers and students with a complete resource on the subject, systematically presenting the principles, methodologies, applications, and challenges associated with this exciting field. Offering a survey of the latest research and a description of future areas of interest, this text: Presents real experimental data Describes organ site-specific mouse models Clearly identifies suitable models for further drug testing Critically analyzes current methodologies and their limitations Features numerous recognizable expert contributors Lists key Web sites, reagents, and companies From mouse handling and genetic engineering to preclinical trials, *Mouse Models of Human Cancer* is a comprehensive guide to using these models and relating them to human disease. Its uniform presentation describes organ-specific models in clinical, imaging, and molecular terms, and lays out the relevant genetics, experimental approaches, histological comparisons with human disease, and conclusions. Combining stellar chapter authors, rich illustrations, and clear, up-to-date coverage, *Mouse Models of Human Cancer* is an invaluable resource for advanced students and cutting-edge researchers.

Nanotechnology for Cancer Therapy Mansoor M. Amiji 2006-12-19 While simultaneous breakthroughs occurring in molecular biology and nanoscience/technology will ultimately revolutionize all of medicine, it is with our efforts to prevent, diagnose, and treat cancer that many of the most dramatic advances will occur. In support of this potential, the U.S. National Cancer Institute (NCI) established the Alliance fo

Biobanking William H. Yong 2018-12-14 This volume not only discusses various common biobanking topics, it also delves into less-discussed subjects such as what is needed to start a biobank, training of new biobanking personnel, and ethnic representation in biospecimen research. Other chapters in this book span practical topics including: disaster prevention and recovery; information technology; flora and fauna preservation including zoological fluid specimen photography; surgical and autopsy biobanking; biobanking of bodily fluids; biosafety; cutting frozen sections; immunohistochemistry; nucleic acid extraction; and biospecimen shipping. 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. Unique and comprehensive, *Biobanking: Methods and Protocols* is a valuable resource for novice and practicing biobankers, and for end-user researchers. This book aims to bring new insight into the field and expand on current biomedical biobanking studies.

Chronic Rhinosinusitis Wytske J. Fokkens 2009 This issue will focus on treatments for Chronic Rhinosinusitis. Dr. Wyste Fokkens guest edits topics such as: "Inflammatory mechanisms in chronic rhinosinusitis with or without nasal polyposis," "European versus Asian Chronic rhinosinusitis. What did it teach us and what do we want to know," "Epithelium, cilia and mucus, their importance in chronic rhinosinusitis Noam Cohen Noam," "Aspirin intolerance: does desensitization alter the course of the disease," "Anti-inflammatory effects of macrolides: applications in CRS," and more!

Atrazine in North American Surface Waters Jeffrey M. Giddings 2005

Advanced Micropipette Techniques for Cell Physiology Kenneth T. Brown 1986 IBRO Handbook Series: Methods in the Neurosciences, Volume 9 General Editor: A. D. Smith *Advanced Micropipette Techniques for Cell Physiology* Kenneth T. Brown

and Dale G. Flaming With this Handbook Series, IBRO aims to fill a major gap in the world literature. The neuroscientist needs to be able to turn to whichever specialized method is most suited to the problem he is currently studying. Methods in the Neurosciences will help to provide expert advice on exactly how to carry out the experiments, on what difficulties can occur and on the limitations of the method. Fine glass micropipettes are extensively used in intra and extra-cellular physiology as a means of recording electrical activity in cells and as a way of injecting a variety of substances for experimental purposes. For the last 12 years the authors of this book have treated micropipette techniques as a research field in itself, and here present for the first time their theory of how micropipette tips are formed, their methods of reducing tip size, and the implications of their work for research on small cells of all kinds, especially cells within the central nervous system. The book not only incorporates this new work but reviews and analyses existing publications on micropipette methodology, including patch-clamping, in order to present as complete an account as possible of how micropipettes can be used efficiently and effectively in a wide variety of experimental situations.

Academic Writing for Graduate Students John M. Swales 1994 A Course for Nonnative Speakers of English. Genre-based approach. Includes units such as graphs and commenting on other data and research papers.

Handbook of Hygiene Control in the Food Industry H. L. M. Lelieveld 2005-10-30 Developments such as the demand for minimally-processed foods have placed a renewed emphasis on good hygienic practices in the food industry. As a result there has been a wealth of new research in this area. Complementing Woodhead's best-selling Hygiene in the food industry, which reviews current best practice in hygienic design and operation, Handbook of hygiene control in the food industry provides a comprehensive summary of the key trends and issues in food hygiene research. Developments go fast: results of the R&D meanwhile have been applied or are being implemented as this book goes to print. Part one reviews research on the range of contamination risks faced by food processors. Building on this foundation, Part two discusses current trends in the design both of buildings and types of food processing equipment, from

heating and packaging equipment to valves, pipes and sensors. Key issues in effective hygiene management are then covered in part three, from risk analysis, good manufacturing practice and standard operating procedures (SOPs) to improving cleaning and decontamination techniques. The final part of the book reviews developments in ways of monitoring the effectiveness of hygiene operations, from testing surface cleanability to sampling techniques and hygiene auditing. Like Hygiene in the food industry, this book is a standard reference for the food industry in ensuring the highest standards of hygiene in food production. Standard reference on high hygiene standards for the food industry Provides a comprehensive summary of the key trends in food hygiene research Effective hygiene management strategies are explored

Guide to the Care and Use of Experimental Animals

Canadian Council On Animal Care 1980 Responsibility for the care of experimental animals. Laboratory animal facilities. The environment. Farm animal facilities and environment. Laboratory animal care. Special practices. Health and safety responsibilities. Standards for experimental animal surgery. Anesthesia. Euthanasia.

The Chloroplast Anna Stina Sandelius 2008-12-11 Chloroplasts are vital for life as we know it. At the leaf cell level, it is common knowledge that a chloroplast interacts with its surroundings - but this knowledge is often limited to the benefits of oxygenic photosynthesis and that chloroplasts provide reduced carbon, nitrogen and sulphur. This book presents the intricate interplay between chloroplasts and their immediate and more distant environments. The topic is explored in chapters covering aspects of evolution, the chloroplast/cytoplasm barrier, transport, division, motility and bidirectional signalling. Taken together, the contributed chapters provide an exciting insight into the complexity of how chloroplast functions are related to cellular and plant-level functions. The recent rapid advances in the presented research areas, largely made possible by the development of molecular techniques and genetic screens of an increasing number of plant model systems, make this interaction a topical issue.

A Treatise on Optics David Brewster 1831