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Flow Cytometry and Cell Sorting John Wiley & Sons

Immunologists, perhaps understandably, most often concentrate on the human immune system, an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the animal kingdom. However, knowledge of animal immune function could help not only to better understand human immunology, but perhaps more importantly, it could help to treat and avoid the blights that affect animals, which consequently affect humans. Take for example the mass death of honeybees in recent years – their demise, resulting in much less pollination, poses a serious threat to numerous crops, and thus the food supply. There is a similar disappearance of frogs internationally, signaling ecological problems, among them fungal infections. This book aims to fill this void by describing and discussing what is known about non-human immunology. It covers various major animal phyla, its chapters organized in a progression from the simplest unicellular organisms to the most complex vertebrates, mammals. Chapters are written by experts, covering the latest findings and new research being conducted about each phylum. Edwin L. Cooper is a Distinguished Professor in the Laboratory of Comparative Immunology, Department of Neurobiology at UCLA's David Geffen School of Medicine.

Mechanisms and Pharmacologic Approaches CRC Press

This book illustrates the intimate relationship between alveolar macrophages and *Mycobacterium tuberculosis* (M.tb.), and the former's role in both innate and adaptive immunity against M.tb. It covers research done over the last decade. It also explores the role of macrophage death following infection with M.tb. in determining whether successful immunity is stimulated, or whether clinical disease develops; furthermore, the function of host lipid mediators in macrophage death modality are addressed. The book also illustrates how the balance between prostaglandins and lipoxins determines whether infected macrophages undergo apoptosis or necrosis, which is the

ultimate factor in the outcome of infection. Finally, it is a synthesis of the authors' recent studies and the studies of others to offer a new understanding of immunity to tuberculosis.

Case Studies in Immunology Routledge

The Scientific Style and Format Eighth Edition Subcommittee worked to ensure the continued integrity of the CSE style and to provide a progressively up-to-date resource for our valued users, which will be adjusted as needed on the website. This new edition will prove to be an authoritative tool used to help keep the language and writings of the scientific community alive and thriving, whether the research is printed on paper or published online.

Translational Autoimmunity Humana

The book focuses on various aspects and properties of innate immunity, whose deep understanding is integral for safeguarding the human race from further loss of resources and economies due to innate immune response-mediated diseases. Throughout this book, we examine the individual mechanisms by which the innate immune response acts to protect the host from pathogenic infectious agents and other non-communicable diseases. Written by experts in the field, the volume discusses the significance of macrophages in infectious disease, tumor metabolism, and muscular disorders. Chapters cover such topics as the fate of differentiated macrophages and the molecular pathways that are important for the pathologic role of macrophages.

A Mystery of Modern Life Academic Press

This volume provides methods and techniques to further the study of cancer immunoprevention. Chapters describe tumor-associated antigens, cancer immune-preventive vaccines, generation of TILs, development of monoclonal antibodies, immunoprofiling technologies, tissue multispectral imaging techniques, mass cytometry on suspensions, multiparametric flow cytometry, genomic expression analysis, and proteomic profiling of tumor microenvironment cell populations and metabolic assessment through novel imaging technologies. Written in the format of the highly successful *Methods in Molecular Biology* series, each chapter includes an introduction to the topic, lists necessary materials and reagents, includes tips on troubleshooting and known pitfalls, and step-by-step, readily reproducible protocols. Authoritative and cutting-edge, *Cancer Immunoprevention: Methods and Protocol* aims to further understanding, development of interventional active strategies, and immune-interception of cancer.

Applied Respiratory Pathophysiology World Scientific

Cancer Immunotherapy Principles and Practice, from the Society of Immunotherapy of Cancer (SITC), is

the authoritative reference on cancer immunobiology and the immunotherapy treatments that harness the immune system to combat malignant disease. Featuring five sections and over 50 chapters covering the Basic Principles of Tumor Immunology, Cancer Immunotherapy Targets and Classes, Immune Function in Cancer Patients, Disease Specific Treatments and Outcomes, and Regulatory Aspects of Cancer Immunotherapy, this book covers all major topics that have shaped the development of immunotherapy and propelled it to its current place at the forefront of cancer treatment innovation. This volume is a comprehensive resource for oncologists and fellows, immunologists, cancer researchers, and related practitioners seeking understanding of the basic science and clinical applications of cancer immunotherapy. As well as presenting the evidence for immune-based cancer treatment, it positions immunotherapy in the context of other available cancer treatments and provides data on response rates, risks, and toxicities across a variety of diseases. Filled with detailed tables, and instructive illustrations, as well as key points for quick reference, Cancer Immunotherapy Principles and Practice simplifies a challenging and dynamic subject. Key Features: Clearly summarizes the basic principles and research supporting cancer immunotherapy clinical translation Contains expert guidance and treatment strategies for all immunotherapy classes and agents, including cell-based therapies, monoclonal antibodies, cytokine therapies, checkpoint inhibitors, oncolytic viruses, adjuvant approaches, and treatment combinations Includes expert perspectives from leading authorities in the field Provides information on all FDA-approved immunotherapies, including clinical management and outcome data Discusses clinical aspects of immunotherapy for individual cancer types, including melanoma and other skin cancers, lung cancers, gynecologic cancers, gastrointestinal cancers, hematologic cancers, genitourinary cancers, head and neck cancers, sarcomas, brain and other CNS cancers, breast cancer, and pediatric malignancies. Explains regulatory aspects behind the development and approval of immunotherapy drugs Includes Online Access to the Digital Book

Host Response to Biomaterials Elsevier

Surveys the biotechnologically influenced advances in the understanding of systemic autoimmune disorders, highlighting recent research using cell biology and biochemistry, the cloning of immune cells, recombinant DNA, and molecular genetics. Among the topics are the role of complement in inflammatio

Molecular to Global Photosynthesis Academic Press

Ever since the birth of molecular biology, the tantalizing possibility of treating disease at its genetic roots has become increasingly feasible. Gene therapy - though still in its infancy - remains one of the hottest areas of research in medicine. Its approach utilizes a gene transfer vehicle (vector) to deliver therapeutic DNA or RNA to cells of the body in order to rectify the defect that is causing the disease. Successful therapies have been reported in humans in recent years such as cures in boys with severe immune deficiencies. Moreover, gene therapy strategies are being adapted in numerous biomedical laboratories to obtain novel treatments for a variety of diseases and to study basic biological aspects of disease. Correction of disease in animal studies, is steadily gaining ground, highlighting the immense potential of gene therapy in the medical profession. This book will cover topics that are at the forefront of biomedical research such as RNA interference, viral and non-viral gene transfer systems, treatment of hematological diseases and disorders of the central nervous system. Leading experts on the respective vector or disease will contribute the individual chapters and explain cutting-edge technologies. It also gives a broad overview of the most important gene transfer vectors and most extensively studied target diseases. This comprehensive guide is therefore a must-read for anyone in the biotechnology, biomedical or medical industries seeking to further their knowledge in the area of human gene therapy.

Fish Immunology Springer Publishing Company

Current Protocols in Immunology is a three-volume looseleaf manual that provides comprehensive coverage of immunological methods from classic to the most cutting edge, including antibody detection and preparation, assays for functional activities of mouse and human cells involved in immune responses, assays for cytokines and their receptors, isolation and analysis of proteins and

peptides, biochemistry of cell activation, molecular immunology, and animal models of autoimmune and inflammatory diseases. Carefully edited, step-by-step protocols replete with material lists, expert commentaries, and safety and troubleshooting tips ensure that you can duplicate the experimental results in your own laboratory. Bimonthly updates, which are filed into the looseleaf, keep the set current with the latest developments in immunology methods. The initial purchase includes one year of updates and then subscribers may renew their annual subscriptions. Current Protocols publishes a family of laboratory manuals for bioscientists, including Molecular Biology, Human Genetics, Protein Science, Cytometry, Cell Biology, Neuroscience, Pharmacology, and Toxicology.

Veterinary Vaccines and Diagnostics Springer Nature

This book highlights progress and trends in the rapidly evolving field of complement-related drug discovery and spotlights examples of clinical applications. As an integral part of innate immunity and critical mediator in homeostatic and inflammatory processes, the human complement system has been identified as contributor to a large number of disorders including ocular, cardiovascular, metabolic, autoimmune, and inflammatory diseases as well as in ischemia/reperfusion injury, cancer and sepsis. In addition, complement is often involved in adverse immune reactions to biomaterials, cell and organ transplants or drug delivery systems. Although the complement cascade with its close to 50 extracellular protein targets has long been recognized as an attractive system for therapeutic modulation, the past few years have seen a particularly strong boost in interest. Fueled by novel research insight and the marketing of the first complement-targeted drugs, a plethora of highly creative treatment approaches and potent drug candidates have recently emerged and are currently evaluated in disease models and clinical trials. The chapters in this book cover a wide range of topics related to the development of complement therapeutics, ranging from the molecular and functional description of complement targets to the presentation of novel inhibitors, improved treatment strategies as well as examples of disease models and clinical applications. The broad and up-to-date overview on a highly versatile and dynamic field renders this book an indispensable source of information for researchers and clinicians dealing with therapeutic and disease-related aspects of the human complement system.

Cancer Immunoprevention Routledge

Focusing on all current applications, this book presents the various methods as well as their suitability and limitations for a specific question. One particular highlight is the presentation of all basic information on the structure of the relevant objects, thus allowing readers to choose the most suitable applications for any specific problem. They will also find in-depth background information on structure-function relationships, plus descriptions of sample preparations with respect to a particular technique and the necessary equipment. The whole is rounded off with an overview of the future application potential for devices and applications of upcoming interest in biotechnology.

Methods and Protocols Delmar Pub

This easy yet comprehensive reference guide covers the mechanisms of respiratory diseases, explaining the main respiratory conditions for clinicians and postgraduate trainees. It discusses their aetiology as well as the basic concepts required to effectively evaluate and treat them. Applied Respiratory Pathophysiology is the first book to bring together detailed, clinically-relevant explanation of respiratory physiological processes and pathophysiological processes in one text. It is essential reading for anyone diagnosing and treating specific clinical conditions of the lungs.

Pathways and Progress in the Transplantation of Organs and Tissues Between Species Academic Press

How can the federal government gauge the overall health of scientific research--as a whole and in its parts--and determine whether national funding adequately supports national research objectives? It is

feasible to monitor US performance with field-by-field peer assessments. This might be done through the establishment of independent panels consisting of researchers who work in a field, individuals who work in closely related fields, and research "users" who follow the field closely. Some of these individuals should be outstanding foreign scientists in the field being examined. This technique of comparative international assessments is also known as international benchmarking. Experiments in International Benchmarking of U.S. Research Fields evaluates the feasibility and utility of the benchmarking technique. In order to do this, the report internationally benchmarks three fields: mathematics, immunology, and materials science and engineering, then summarizes the results of these experiments.

Clinical Applications in Health and Disease Springer Science & Business Media

Psychoendocrinology covers the advances in the field of biology and the development of highly refined measurement techniques for hormones. The book discusses the partitioning of neuroendocrine steroids and peptides between vascular and cerebral compartments; the mechanisms of the female reproductive behavior; and the sensory, hormonal, and neural determinant of maternal behavior. The text describes the effects of sexual behavior on gonadal function in rodents; the hormonal regulation of learning performance; and the hormonal modulation of memory. The psychobiological perspective on the psychoneuroendocrinology of stress and the behavioral effects of the endogenous opioids are also considered. The book further tackles the hormonal interactions on temperature regulation and temperature regulation under modified physiological states. Endocrinologists, psychobiologists, neurologists, neurobiologists, and students taking related courses will find the book useful.

Clinical Xenotransplantation Springer

The field of oral microbiology has seen fundamental conceptual changes in recent years. Microbial communities are now seen as the fundamental etiological agent in oral diseases through their interface with host inflammatory responses. Study of structured microbial communities has increased our understanding of the roles of each member in the pathogenesis of oral diseases, principles that apply to both periodontitis and dental caries. Against this backdrop, the third edition of Oral Microbiology and Immunology has been substantially expanded and rewritten by an international team of authors and editors. Featured in the current edition are: links between oral infections and systemic disease revised and updated overview of the role of the immune system in oral infections thorough discussions of biofilm development and control more extensive illustrations and Key Points for student understanding Graduate students, researchers, and clinicians as well as students will find this new edition valuable in study and practice. The field of oral microbiology has seen fundamental conceptual changes in recent years. Microbial communities are now seen as the fundamental etiological agent in oral diseases through their interface with host inflammatory responses. Study of structured microbial communities has increased our understanding of the roles of each member in the pathogenesis of oral diseases, principles that apply to both periodontitis and dental caries. Against this backdrop, the third edition of Oral Microbiology and Immunology has been substantially expanded and rewritten by an international team of authors and editors. Featured in the current edition are: links between oral infections and systemic disease revised and updated overview of the role of the immune system in oral infections thorough discussions of biofilm development and control more extensive illustrations and Key Points for student understanding Graduate students, researchers, and clinicians as well as students will find this new edition valuable in study and practice.

Scientific Style and Format Oxford University Press

From basic science to clinical care, to epidemiological disease patterns, The Neurology of AIDS is the only complete textbook available on AIDS neurology and the only one comprehensive enough to stand alone in each segment of study in brain disorders affected by the human immunodeficiency virus. It is an indispensable resource for students, resident physicians, practicing physicians, and for researchers and experts in the HIV/AIDS field. Oxford Clinical Neuroscience is a comprehensive, cross-searchable collection of resources offering quick and easy access to eleven of Oxford University Press's prestigious neuroscience texts. Joining Oxford Medicine Online these resources offer students, specialists and clinical researchers the best quality content in an easy-to-access format.

Gerontology and Leadership Skills for Nurses Springer Science & Business Media

Systemic Autoimmunity CRC Press

Immunology IV World Scientific

As an internationally renowned specialist in childhood allergy and immunology, Prof. Susan Prescott takes us on a journey into the science behind the allergy epidemic. As both an allergy specialist working in a busy children's hospital and as a cutting edge research scientist, Prescott is perfectly placed to explore how and why we are experiencing an epidemic rise in allergic diseases, as well as the practical side of dealing with these potentially serious conditions. With clear, no-nonsense explanations and a very personable style, Prescott informs, assures, and educates in this book.

Avian Immunology Cambridge University Press

The analysis and sorting of large numbers of cells with a fluorescence-activated cell sorter (FACS) was first achieved some 30 years ago. Since then, this technology has been rapidly developed and is used today in many laboratories. A Springer Lab Manual Review of the First Edition: "This is a most useful volume which will be a welcome addition for personal use and also for laboratories in a wide range of disciplines. Highly recommended." CYTOBIOS

Cancer Immunotherapy Principles and Practice Springer Science & Business Media

Translational Immunology: Mechanisms and Pharmacologic Approaches highlights and summarizes the most important advances in human immunology, clinical translations, new tools to analyze therapeutic targets, and new pharmacological approaches for autoimmunity, inflammatory disorders, and cancer. The book is an essential resource for those seeking to understand the potential translational applications of burgeoning studies in human immunology, helping readers make sense of the existing and emerging scientific advances. The book grounds fundamental science in the translational realm, providing insights from world renowned researchers at the top of their game in their respective fields, in both industry and academic settings. Readers will gain an understanding of the rationale and mechanisms underlying current and emerging pharmacologic approaches for interventional immunology, the gaps therein, and new ideas for better and safer therapeutic approaches, and physicians will glean information about pharmacological limitations in altering disease progression and complications. This reference on the translational realization of the burgeoning findings in immunology provides a go-to reference for experienced professional clinicians, researchers, industry scientists, and those seeking more information on the field. Delivers comprehensive coverage of seminal human immunology discoveries and the resulting impact on therapeutic strategies Presents potential novel targets and approaches for clinical applications in organ specific and systemic autoimmunity, transplant rejection, cancer, and vaccine development Discusses lessons learned from successful and failed clinical trials with specific interventions, including pharmacological issues and limitations, and complications due to immunosuppression Provides information on new strategies and outstanding issues that should be addressed in future research