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Dendritic Cell Protocols

Second Edition

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Humana Press

Dendritic Cell Protocols

Christopher A. Klug, Craig T. Jordan



Dendritic Cell Protocols:

Dendritic Cell Protocols Elodie Segura, Nobuyuki Onai, 2016 The third edition of this volume is aimed at providing both beginners and more experienced researchers a choice of methods to isolate and analyze dendritic cells DC An introductory review provides an overview of recent advances in the characterization of DC subsets in mouse and human While additional chapters provide methods to culture human and mouse dendritic cells protocols for the isolation of dendritic cells the isolation of dendritic cell progenitors from mouse and the purification of dendritic cells from human blood 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 **Dendritic Cell Protocols** Third Edition aims to ensure successful results in the further study of this vital field

Dendritic Cell Protocols Stephen P. Robinson, Andrew J. Stagg, 2008-02-02 **Dendritic Cell Protocols** provides chapter and verse for many useful practical approaches to the art of studying dendritic cells The book gives information on the usual techniques for derivation of human dendritic cells from precursor stem cells such as monocytes In addition it provides data on the difficult tasks of isolating dendritic cells directly from different tissues whether dendritic cells from precursor cells or from tissues of mouse or human are required this book contributes practical information The last section of the book is devoted to functional aspects of dendritic cells ranging from information relevant to cell migration to antigen uptake and T cell stimulation But what is a dendritic cell The explosion of studies on this cell type over the last few years is breathtaking We now have so called myeloid and plasmacytoid dendritic cells are they of separate lineages or are they related There are claims that dendritic cells can be derived from B cells and from granulocytes as well as from monocytes Lymphocytes can be switched on or off by dendritic cells Dendritic cells can preferentially cause Th1 or Th2 responses or some may stimulate B cells directly When there is so much scope for exploring these new developments it is particularly important that the data that are established and the practical basis for this work are clearly available a task that this book fulfils

Dendritic Cell Protocols Stephen P. Robinson, Andrew J. Stagg, 2010-10-28 Stephen P Robinson MD PhD and Andrew Stagg PhD have brought together a wide range of time proven methods for studying these dendritic cells Many of these readily reproducible techniques deal with the problem of obtaining sufficient dendritic cells for analysis whether by isolation from a wide variety of tissues or from various progenitor cell populations Other methods describe in step by step fashion the techniques commonly used for analyzing aspects of dendritic cells ranging from cell migration to antigen uptake and T cell stimulation In addition a few techniques explore the practical challenges involved in using dendritic cells in a clinical setting to develop novel immunotherapeutics

Dendritic Cells Vanja Sisirak, 2023-03-11 This detailed volume provides methods that can be used to study dendritic cell DC ontogeny isolation migration and functions After an introduction to murine and human DC subsets and their unique transcriptional phenotypic and functional properties the book

continues with sections covering in vivo studies in vitro differentiation enrichment functional characterization as well as Omics approaches to study dendritic cells Written for the highly successful Methods in Molecular Biology series 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 Dendritic Cells Methods and Protocols is an ideal guide to familiarize readers with the current state of the art techniques to investigate these vital cells

Dendritic Cell Protocols. Methods in Molecular Medicine Stephen P. Robinson, Andrew J. Stagg, 2001 Stephen P Robinson MD PhD and Andrew Stagg PhD have brought together a wide range of time proven methods for studying these dendritic cells Many of these readily reproducible techniques deal with the problem of obtaining sufficient dendritic cells for analysis whether by isolation from a wide variety of tissues or from various progenitor cell populations Other methods describe in step by step fashion the techniques commonly used for analyzing aspects of dendritic cells ranging from cell migration to antigen uptake and T cell stimulation In addition a few techniques explore the practical challenges involved in using dendritic cells in a clinical setting to develop novel immunotherapeutics

T Cell Protocols Kelly P. Kearse, 2008-02-02 The purpose of T Cell Protocols Development and Activation is to collect a series of protocols particularly those that have been developed within the past few years to help investigators master new techniques or improve existing ones for the study of T cell Biology Invariably in putting together a book like this it is difficult to decide which methods to include and which to leave out To this end methods were selected from a variety of disciplines including cellular immunology biochemistry and molecular biology to try to provide something of interest for everyone who works on T cell development and activation I would like to mention that my primary reason for agreeing to put this book together is that when I was a graduate student I purchased a copy of Selected Methods in Cellular Immunology by Mishell and Shigii which proved a tremendous help in learning the basics of one and two dimensional gel techniques and other methods The cover has long since fallen off but it still remains one of my most valued reference books for the laboratory It is my hope that T Cell Protocols Development and Activation will prove similarly useful to current and future scientists wishing to learn new methods for exploring the development and activation of T cells

Germ Cell Protocols Heide Schatten, 2008-02-05 The study of germ cells has undergone enormous advances in recent years and has entered into an explosive phase of new discoveries with the introduction of transgenic technologies and nuclear cloning Basic knowledge and techniques developed for lower vertebrate and invertebrate systems have facilitated the study of higher vertebrates including humans Many experiments that have first been performed on lower vertebrates provided the tools and strategies that could later be applied to other less readily available mammalian systems The discovery of centrosomes in ascidians and sea urchin eggs now benefits studies of fertility and infertility in mammals including humans External in vitro fertilization now a common technique in assisted fertilization has only been possible as a result of numerous studies in lower systems in which external fertilization

is natural Egg activation first explored in sea urchin and ascidian eggs now benefits cloning efficiency in farm and domestic animals Gene manipulations and molecular methods have added to the possibilities of producing live offspring with enormous biomedical ecological and economic implications All sexually reproducing organisms produce primordial germ cells a small population of cells that differentiate into gametes of either sex that carry to potency an ability to develop into an entire new organism The two volumes on germ cells combine techniques in a variety of different systems and have selected those systems that have provided landmarks in advancing our knowledge on germ cells

Hematopoietic Stem Cell Protocols Christopher A. Klug, Craig T. Jordan, 2008-02-01 The ability to highly purify and characterize hematopoietic stem cells HSC from mice and humans has opened up an exceedingly rich field of basic science research with enormous clinical potential Many of the techniques used in studies of HSC biology have become more standardized over the last several years which makes it possible to compile a set of methods that can be used by both seasoned investigators and novices in the stem cell field We have attempted to be as comprehensive as possible and yet focus on what we perceive to be the most widely used approaches for studies of murine and human HSC This first edition of Hematopoietic Stem Cell Protocols will therefore have some obvious omissions that were dictated by contemporary circumstances It is our hope that readers will feel free to contribute their personal suggestions for further chapters as well as on how existing chapters can be improved for future editions We certainly expect that old approaches will be refined new assays will be developed and other animal model and vector systems will be described that will become the new gold standards for future work Our sincere thanks goes out to all of the contributors and to those in the stem cell field that have enlarged our thinking and provided new tools to further understand this fascinating cell type

Glycoprotein Methods and Protocols Anthony P. Corfield, 2007-10-26 The mucins mucus glycoproteins have long been a complex corner of glycoprotein biology While dramatic advances in the separation structural analysis biosynthesis and degradation have marked the progress in general glycoprotein understanding the mucins have lagged behind The reasons for this lack of progress have always been clear and are only now being resolved The mucins are very large molecules they are difficult to separate from other molecules present in mucosal secretions or membranes they are often degraded owing to natural protective functions or to isolation methodology and their peptide and oligosaccharide structures are varied and complex Understanding these molecules has demanded progress in several major areas Isolation techniques that protect the intact mucins and allow dissociation from other adsorbed but discrete molecules needed to be developed and accepted by all researchers in the field Improved methods for the study of very large molecules with regard to their aggregation and polymerization were also needed Structural analysis of the peptide domains and the multitude of oligosaccharide chains was required for smaller sample sizes for multiple samples and in shorter time In view of these problems it is perhaps not surprising that the mucins have remained a dilemma of obvious biological importance and interest but very difficult to analyze

Tumor Immunology and Immunotherapy - Cellular Methods Part B

,2020-01-28 Tumor Immunology and Immunotherapy Cellular Methods Part B Volume 632 the latest release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Topics covered include Quantitation of calreticulin exposure associated with immunogenic cell death Side by side comparisons of flow cytometry and immunohistochemistry for detection of calreticulin exposure in the course of immunogenic cell death Quantitative determination of phagocytosis by bone marrow derived dendritic cells via imaging flow cytometry Cytofluorometric assessment of dendritic cell mediated uptake of cancer cell apoptotic bodies Methods to assess DC dependent priming of T cell responses by dying cells and more **Signaling by Toll-Like Receptors** Gregory W. Konat,2008-06-20 The discovery of toll like receptors TLRs spurred the field of innate immunity into a renaissance after many years of neglect Since then TLR research has grown at an exponential rate Taking an integrated methodological approach Signaling by Toll Like Receptors offers a comprehensive review of important techniques in molecular biology New Trends in Allergy V Johannes Ring,Heidrun Behrendt,2012-12-06 New Trends in Allergy V is the fifth volume of a series focussing on new trends in experimental and clinical allergology The interdisciplinary character is documented by articles from such different fields as basic immunology chemistry molecular biology pharmacology epidemiology pneumology dermatology otolaryngology pediatrics and psychosomatic medicine Special emphasis is given to the role of both anthropogenic pollutants as well as natural environmental factors in the development of allergy Among new pathophysiological concepts dendritic cells lymphocyte interactions mast cells eosinophils and neutrophils as well as psycho neuro immunological influences are featured Practical aspects focus on asthma rhinoconjunctivitis atopic eczema occupational and food allergy as well as anaphylaxis The most recent therapeutic strategies comprise novel pharmacotherapy and allergen specific as well as unspecific e g anti IgE immunotherapy Vaccine Protocols Andrew P. Robinson,Martin P. Cranage,Michael J. Hudson,2008-02-01 Vaccine research and development is advancing at an unprecedented pace with an increasing emphasis on rational design based upon a fundamental understanding of the underlying molecular mechanisms The aim of this volume is to provide a selection of contemporary protocols that will be useful to both novice and advanced practitioner alike The variety of procedures required to design develop produce and assess a vaccine is immense and covers aspects of chemistry biochemistry molecular biology cell biology and immunology No single volume can hope to cover these topics exclusively Rather here we attempt to provide a methods sourcebook focusing on hands on practical advice Complementary and background information may be found in other volumes in the Methods in Molecular Medicine series Of particular interest are volumes on Dendritic Cell Protocols Interleukin Protocols Vaccine Adjuvants and DNA Vaccines Since the publication of the first edition of Vaccine Protocols there have been major advances particularly in the areas of bacterial genomics antigen specific T cell quantification genetic manipulation of vaccine vectors the harnessing of natural molecules concerned with the regulation of immune responses and the burgeoning field of DNA vaccinology Hence the extensive revision of this edition

with new chapters on live viral vaccine vectors attenuated bacterial vectors immunomodulators MHC peptide tetrameric complexes and the identification of vaccine candidates by genomic analysis Additionally chapters from the first edition have been updated to accommodate state of the art methods in vaccinology Interferon Methods and Protocols Daniel J. J. Carr, 2008-02-02 A compendium of optimized methods to measure type I interferon efficacy as an antiproliferative or an antiviral agent These cutting edge techniques range from the simple to the highly complex and serve to illuminate the signaling cascades and the activation of enzymatic pathways prompted by interferon The protocols follow the successful Methods in Molecular Medicine™ series format each offering step by step laboratory instructions an introduction outlining the principle behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding known pitfalls State of the art and highly practical Interferon Methods and Protocols offers researchers powerful tools not only to ascertain the functions of IFN stimulatory gene products but also to identify additional molecular pathways that will clarify our understanding of the many biological events influenced by IFNs International Review of Cytology, 2001-05-08 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 **Regenerative Medicine - from Protocol to Patient** Gustav Steinhoff, 2016-04-12 Regenerative medicine is the main field of groundbreaking medical development and therapy using knowledge from developmental and stem cell biology as well as advanced molecular and cellular techniques This collection of volumes Regenerative Medicine From Protocol to Patient aims to explain the scientific knowledge and emerging technology as well as the clinical application in different organ systems and diseases International leading experts from all over the world describe the latest scientific and clinical knowledge of the field of regenerative medicine The process of translating science of laboratory protocols into therapies is explained in sections on regulatory ethical and industrial issues The collection is organized into five volumes 1 Biology of Tissue Regeneration 2 Stem Cell Science and Technology 3 Tissue Engineering Biomaterials and Nanotechnology 4 Regenerative Therapies I and 5 Regenerative Therapies II The textbook gives the student the researcher the health care professional the physician and the patient a complete survey on the current scientific basis therapeutical protocols clinical translation and practiced therapies in regenerative medicine Volume 3 Tissue engineering Biomaterials and Nanotechnology focuses the development of technologies which enable an efficient transfer of therapeutic genes and drugs exclusively to target cells and potential bioactive materials for clinical use Principles of tissue engineering vector technology multifunctionalized nanoparticles biodegradable materials controlled release and biointerface technology are described with regard to the development of new clinical cell technology Imaging and targeting technologies as well as biological aspects of tissue and organ engineering are depicted **Immune evasion strategies in**

protozoan-host interactions Alexandre Morrot,2024-08-13 The protozoa are the most ancient members of the animal kingdom and they have evolved the intracellular parasitism to ensure their survival strategies Protozoan parasites that infect humans are extremely diverse among eukaryotes They are responsible for many human diseases such as amebiasis Chagas disease malaria toxoplasmosis leishmaniasis and African sleeping sickness The ability of protozoans to cause disease depends on the nature and number of infecting organisms the route of infection the virulence factors associated with the microorganism and the strength of host defenses This host parasite interaction is also subject to constant change as the infection proceeds and can lead to a range of outcomes from elimination of the pathogen to death of the host depending on the states of latency and the extent of colonization that the protozoan achieves in the course of infection Several species of parasitic protozoa harbor specialized virulence factors whose products can overcome the host's immunity and promote their survival These factors act at several different checkpoints of the host immune responses from the first components of the innate immune response to the induction and maintenance of adaptive memory responses Many protozoan species have evolved mechanisms that modulate and inhibit host sensors microRNA circuits and signaling pathways that permit the host to detect infection These factors can act *inter alia* by inhibiting the complement cascade subverting phagocyte activation and impairing leukocyte migratory responses so undermining the immune system thus facilitating the pathogen evasion and its continued persistence in the host In this research topic we welcome the contribution of original research article as well as reviews on the field

Renal Cell Carcinoma Ronald M. Bukowski,Andrew Novick,2000-04-10 Renal cell carcinoma represents a heterogeneous group of tumors the most common of which is clear cell adenocarcinoma The annual incidence of this tumor appears to be rising and approximately 12 000 individuals die from this cancer annually in the United States One third of patients who present have metastatic disease at the time of diagnosis and another 40% who undergo nephrectomy will ultimately develop this complication Over the past 10 years a significant amount of new information concerning the epidemiology molecular and immunologic characteristics and therapy for patients with these tumors has appeared The recognition that inherited forms of renal cancer exist and that chromosomal abnormalities can be identified in these tumors suggested a genetic basis for renal cell carcinoma The familial cancer syndrome Von Hippel Lindau disease provided the setting in which the genetic abnormalities associated with the development of renal cancer were first described Abnormalities of the VHL gene have also been detected in sporadic clear cell carcinoma and it has now been recognized that approximately 80 % of these tumors will demonstrate characteristic alterations Currently the functions of the VHL protein are being investigated and the biology of clear cell carcinoma of the kidney is under study Additionally papillary carcinomas of the kidney appear to express different molecular defects and these are now being unraveled

Aging Methods and Protocols Yvonne A. Barnett,Christopher R. Barnett,2008-02-01 Aging is an almost universal process within biological systems one which leads to a decline in functional capacity disease onset and eventually death There has been much interest in recent

years to elucidate the molecular mechanisms that underlie the aging process. Many theories have been proposed since the last century that aim to explain the causes of aging. There is no one theory that completely satisfies the phenotype of aging, but genetics and environmental factors play an important role in the etiology of age-related pathologies and the aging process. However, there is still much to be learned about the aging process, which has been termed one of the last great frontiers in biology. Demographic changes worldwide are leading to increased average life expectancies within our populations. These changes in population characteristics will impact upon the economies of the supporting society with increasing healthcare and infrastructural costs arising from the prevalence of age-related pathologies and other physical disabilities associated with advancing years. Many researchers worldwide are working in the attempt to identify key cellular processes through which it might one day be possible to slow down the aging process and thus increase the health span of humans. Numerous research projects from the cellular through to tissue, organ, and whole organism studies are currently underway to investigate the multifactorial aging process.

Human Cell Culture Protocols Joanna Picot, 2008-02-02 A thoroughly revised and updated collection of readily reproducible techniques for culturing human cells. This new edition includes a wide range of human cell types relevant to human disease and new chapters on fibroblasts, Schwann cells, gastric and colonic epithelial cells, and parathyroid cells. The protocols follow the successful *Methods in Molecular Medicine*™ series format, each offering step-by-step laboratory instructions, an introduction outlining the principle behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls.

This book delves into Dendritic Cell Protocols. Dendritic Cell Protocols is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dendritic Cell Protocols, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Dendritic Cell Protocols
- Chapter 2: Essential Elements of Dendritic Cell Protocols
- Chapter 3: Dendritic Cell Protocols in Everyday Life
- Chapter 4: Dendritic Cell Protocols in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Dendritic Cell Protocols. This chapter will explore what Dendritic Cell Protocols is, why Dendritic Cell Protocols is vital, and how to effectively learn about Dendritic Cell Protocols.
3. In chapter 2, the author will delve into the foundational concepts of Dendritic Cell Protocols. This chapter will elucidate the essential principles that need to be understood to grasp Dendritic Cell Protocols in its entirety.
4. In chapter 3, this book will examine the practical applications of Dendritic Cell Protocols in daily life. The third chapter will showcase real-world examples of how Dendritic Cell Protocols can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Dendritic Cell Protocols in specific contexts. The fourth chapter will explore how Dendritic Cell Protocols is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Dendritic Cell Protocols. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Dendritic Cell Protocols.

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