

Methods in Molecular Biology™

VOLUME 138

Chemokine Protocols

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Chemokine Protocols Methods In Molecular Biology

Matt Guille



Chemokine Protocols Methods In Molecular Biology:

Chemokine Protocols Amanda E.I. Proudfoot, Timothy N.C. Wells, Christine Power, 2008-02-05 The chemokines family of small proteins are involved in numerous biological processes ranging from hematopoiesis angiogenesis and basal leukocyte trafficking to the extravasation and tissue infiltration of leukocytes in response to inflammatory agents tissue damage and bacterial or viral infection Chemokines exert their effects through a family of seven G protein coupled transmembrane receptors Worldwide interest in the chemokine field surged dramatically early in 1996 with the finding that certain chemokine receptors were the elusive coreceptors required along with CD4 for HIV infection Today though over 40 human chemokines have been described the number of chemokine receptors lags behind only 17 human chemokine receptors have been identified so far What has emerged over the years is that most chemokine receptors bind several distinct ligands and indeed the majority of chemokines are able to bind to multiple chemokine receptors explaining to some extent the apparent disparity in the numbers of chemokines and receptors Yet in spite of the apparent redundancy in chemokine receptor interactions it is clear that in vivo spatial temporal and indeed cell and tissue specific expression of both chemokines and their receptors are important factors in determining the precise nature of cellular infiltrates in physiological and pathological processes

Chemokines Astrid E. Cardona, Erobohene E. Ubogu, 2013 Chemokines constitute a large family of structurally similar cytokines that contain a signature of conserved cysteine residues joined by disulfide bridges Binding of chemokines to specific G protein coupled receptors followed by downstream signaling defines their biological function Initially chemoattraction was the key function linked to chemokines chemokine receptors however in recent years it has become clear that chemokine ligand receptor interactions can also modulate cellular activation survival and proliferation among other functions in homeostatic and diseased states Importantly major advances in our understanding of chemokine biology have led to chemokine receptors becoming specific therapeutic targets with great potential In Chemokines Methods and Protocols expert researchers provide practical information regarding experimental models and state of the art protocols used to delineate chemokine receptor function and their applications in health and disease 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 Practical and easy to use Chemokines Methods and Protocols aims to reveal key protocols of functional and descriptive chemokine ligand receptor assays that will be of practical significance to graduate students post doctoral fellows trainees and researchers in academia and industry

Immunotoxin Methods and Protocols Walter A. Hall, 2008-02-02 Immunotoxins represent a new class of human therapeutics that have widespread applications and a potential that has not yet been fully recognized since they were first conceived of by Paul Ehrlich in 1906 The majority of advances in the development and implementation of immunotoxins has occurred over the last 20 years The reasons for this

use of immunotoxins in basic science and clinical research are the powerful concurrent advances in genetic engineering and receptor physiology Recombinant technology has allowed investigators to produce sufficient quantities of a homogeneous compound that allows clinical trials to be performed The identification of specific receptors on malignant cell types has enabled scientists to generate immunotoxins that have had positive results in clinical trials As more cellular targets are identified in coming years additional trials will be conducted in different disease states affecting still larger patient populations Modulation of the immune system to decrease the humoral response to immunotoxins may improve their overall efficacy As increasingly more effective compounds are generated it will be necessary to decrease the local and systemic toxicity associated with these agents and methods for doing so are presently being developed The work presented in Immunotoxin Methods and Protocols focuses on three specific areas of immunotoxin investigation that are being conducted by experts throughout the world The first section describes the construction and development of a variety of immunotoxins

Methods in Molecular Biology: Chemokine protocols John M. Walker, 1984

Calpain Methods and Protocols John S. Elce, 2008-02-05 The purpose of Calpain Methods and Protocols is quite straightforward it is to present the actual experimental methods used in many different laboratories for the study of calpain It will provide the vital experimental detail and the discussion of possible pitfalls for which the standard journals no longer provide space This will make it as easy as possible for investigators interested in calpain to adopt established methods without repeating old mistakes and to adapt and apply these methods in novel approaches to the many outstanding calpain questions These questions range from purely biochemical problems of protein structure and enzyme regulation at the molecular level through large areas of cell biology to applied and clinical aspects of calpain function in human disease Within this panoply of topics a wide range of investigators will find many fascinating and as yet unanswered questions about calpain Calpain Methods and Protocols will provide instant access to many essential techniques while saving them the time and effort involved in developing a new method In addition to questions relating to the normal physiological roles of the calpains there is considerable evidence that inappropriate calpain activity may have pathological effects in many tissues for example following ischemia This provides a major stimulus for the development of specific calpain inhibitors for therapeutic purposes and for the development of methods to evaluate such inhibitors

Methods in Cellular Immunology Rafael Fernandez-Botran, 2001-06-26 A step by step guide to commonly used procedures Methods in Cellular Immunology addresses both human and murine models in addition to such topics as PCR and apoptosis The basic format of the original version has been maintained and the goal remains the same to make it a useful and easy to use tool for investigators employing cellular immunological techniques in their research regardless of whether or not immunology is their main area of expertise It provides information about manufacturers and commercial sources of chemicals and reagents and a comprehensive list of references allowing readers to refer back to the original information and or techniques

Cytoskeleton Methods and Protocols Ray H. Gavin, 2008-02-03 Over the past two decades experimental

studies have solidified the interpretation of the cytoskeleton as a highly dynamic network of microtubules actin microfilaments intermediate filaments and myosin filaments Rather than a network of disparate fibers these polymers are often interconnected and display synergy which is the combined action of two or more cytoskeletal polymers to achieve a specific cellular structure or function Cross communication among cytoskeletal polymers is thought to be achieved through cytoskeletal polymer accessory proteins and molecular motors that bind two or more cytoskeletal polymers Development of the modern concept of the cytoskeleton is a direct result of growth of advances in experimental tools and reagents that are available to cell and molecular biologists Technological advances and refinements in cell imaging have made it possible to selectively image a single cytoskeletal polymer and monitor its dynamics through the use of fluorescence probes in vitro and in vivo Two decades ago cytoskeletal research was limited to a few perturbation reagents that included colchicine and cytochalasin Today the perturbation arsenal has expanded to a highly selective group of reagents that includes Taxol nocodazole benomyl latrunculin jasplakinolide and such endogenous proteins as gelsolin These reagents enable the investigator to selectively perturb or destroy a cytoskeletal polymer while leaving other cytoskeletal polymers intact Site specific monoclonal antibodies that target a specific cytoskeletal polymer have proven to be highly selective affinity tools for cytoskeletal research

Molecular Methods in Developmental Biology Matt Guille, 2008-02-03 The process whereby a single cell the fertilized egg develops into an adult has fascinated for centuries Great progress in understanding that process has never been made in the last two decades when the techniques of molecular biology have become available to developmental biologists By applying these techniques the exact nature of many of the interactions responsible for forming the body pattern are now being revealed in detail Such studies are a large and it seems ever expanding part of most life science groups It is at newcomers to this field that this book is primarily aimed A number of different plants and animals serve as common model organisms for developmental studies In Molecular Methods in Developmental Biology Xenopus and Zebrafish a range of the molecular methods applicable to two of these organisms are described these are the South African clawed frog *Xenopus laevis* and the zebrafish *Brachydanio rerio* The embryos of both of these species develop rapidly and externally making them particularly suited to investigations of early vertebrate development However both *Xenopus* and zebrafish have their own advantages and disadvantages *Xenopus* have large robust embryos that can be manipulated surgically with ease but their pseudotetraploidy and long generation time make them unsuitable candidates for genetics This disadvantage may soon be overcome by using the diploid *Xenopus tropicalis* and early experiments are already underway The transparent embryos of zebrafish render them well suited for in situ hybridization and immunohistochemistry and good for observing mutations in genetic screens

Connexin Methods and Protocols Roberto Bruzzone, Christian Giaume, 2008-02-05 Direct cell cell communication is a common property of multicellular organisms that is achieved through membrane channels which are organized in gap junctions The protein subunits of these intercellular channels the connexins form a multigene family that

has been investigated in great detail in recent years. It has now become clear that in different tissues connexins speak several languages that control specific cellular functions. This progress has been made possible by the availability of new molecular tools and the improvement of basic techniques for the study of membrane channels as well as by the use of genetic approaches to study protein function in vivo. More important, connexins have gained visibility because mutations in some connexin genes have been found to be linked to human genetic disorders.

Connexin Methods and Protocols presents in detail a collection of techniques currently used to study the cellular and molecular biology of connexins and their physiological properties. The field of gap junctions and connexin research has always been characterized by a multidisciplinary approach combining morphology, biochemistry, biophysics, and cellular and molecular biology. This book provides a series of cutting edge protocols and includes a large spectrum of practical methods that are available to investigate the function of connexin channels. **Connexin Methods and Protocols** is divided into three main parts.

Neurotrophin Protocols Robert A. Rush, 2008-02-03

The past decade has seen an extraordinary growth in research interest in neurotrophic factors and the study of the neurotrophin family has led this activity. Nevertheless, this area of research has often struggled as a result of techniques that were either inadequate or just emerging from other research fields and disciplines. **Neurotrophin Protocols** has brought together many leaders in the neurotrophin field who detail their special expertise in a wide variety of techniques. Though most procedures are valid across many different fields of research, some of those described here have been developed to address particular issues within the neurotrophic factor field. The protocols cover a broad range of biochemical, histological, and biological techniques that are often required by the modern laboratory. However, all have been written with sufficient detail to allow any laboratory to achieve proficiency without need of reference to other texts. **Neurotrophin Protocols** is divided into four sections dealing with protein, RNA, recombinant, and in vivo techniques. Protein techniques have in general been less successfully employed than those dealing with RNA or DNA. However, procedures that achieve localization and quantification of the neurotrophins are now being used more extensively. Their inclusion here should assist further studies at the protein level. Transgenic cell lines and animals are commonplace in the scientific research literature but their inclusion in several chapters in this book provide some novel uses that are not readily available elsewhere.

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