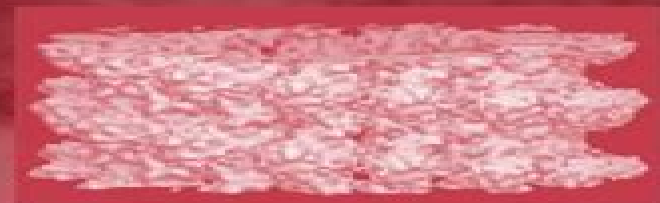


Molecular Motors

Methods and Protocols

Edited by

Ann O. Sperry



HUMANA PRESS

Molecular Motors Methods And Protocols Methods In Molecular Biology

Walter T. Ambrosius



Molecular Motors Methods And Protocols Methods In Molecular Biology:

Molecular Motors Ann O. Sperry, 2010-11-19 Molecular motor proteins produce force for movement in an incredibly wide variety of cellular processes This volume explores the extreme functional and structural diversity of molecular motors and presents methods relevant to each motor family In addition it describes techniques directed at motors that fall outside of the three characterized families dynamin and F1ATPase **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 outgrowth 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 Motors Christophe Lavelle, Antoine Le Gall, 2024-12-20 This fully updated volume presents a diverse collection of protocols and methodologies for studying various molecular motors The book explores the dynamics of the bacterial flagellar motor the mechanisms of ATP synthase the assembly and function of cytoskeletal motors and the role of nucleic acid motors in cellular processes while placing a strong emphasis on state of the art techniques highlighting innovative methods such as single molecule visualization and high resolution tracking sophisticated biochemical assays bioengineering applications as well as computational modeling 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 and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical *Molecular Motors Methods and Protocols Third Edition* serves as an ideal guide to enable researchers to probe the mechanisms of molecular motors with unprecedented precision and detail *In Vitro*

Transcription and Translation Protocols Guido Grandi, 2007-05-03 This book is a highly anticipated update of the previous edition It provides molecular biology laboratories with the most powerful techniques for exploiting in vitro transcription and

translation systems It has been completely updated with new chapters and topics Structure and Physics of Viruses Mauricio G. Mateu,2024-12-31 The second edition of this book provides a completely updated account of the structure dynamics and physics of viral particles from the moment they emerge by self assembly from viral components produced in the infected cell through their extracellular stage until they recognize and infect a new host cell and cease to exist as they lose their physical integrity to initiate a new infectious cycle New insights into the structure of viruses their physical properties and mechanisms of action derived from results obtained in the last decade have been included as well as other bio physical techniques to study the structure or dynamics of virus particles and components These include among many others new advances in high resolution electron cryomicroscopy novel approaches in the use of electron cryotomography or the application of soft X ray tomography to study viruses in the infected cell high speed atomic force microscopy to study virus assembly and dynamics and the development of new antiviral drugs and vaccines as well as of many nanomedical and nanotechnological applications of virus particles New chapters on the study of viruses inside infected cells and on technological applications of modified viral particles have been included in this second edition The book is still aimed primarily at Master s students Ph D students and postdoctoral researchers with degrees in biology chemistry physics or related scientific disciplines who have an interest in or are working with viruses It provides an up to date overview of many important concepts techniques studies and applications in structural and physical virology for specialized researchers working with viruses regardless of their field of specialization covering the latest research together with fundamental concepts and well established facts In short this book is basic enough to be used by undergraduate and Ph D students but advanced and up to date enough for experienced scientists with an interest in structural and or physical virology **Pichia Protocols** James M Cregg,2007-08-08 This book focuses on recent developments of Pichia pastoris as a recombinant protein production system Highlighted topics include a discussion on the use of fermentors to grow Pichia pastoris information on the O and N linked glycosylation methods for labeling Pichia pastoris expressed proteins for structural studies and the introduction of mutations in Pichia pastoris genes by the methods of restriction enzyme mediated integration REMI Each chapter presents cutting edge and cornerstone protocols for utilizing P pastoris as a model recombinant protein production system This volume fully updates and expands upon the first edition **Glycoviropology Protocols** Richard J. Sugrue,2008-01-18 Glycoviropology Protocols reviews the increasing importance of glycosylation to the field of virology as well as virus replication The chapters provide an overview of glycosylation in relation to virus infection and the generic techniques that are used to analyze and characterize glycoproteins *Methods in Membrane Lipids* Alex M. Dopico,2007-08-30 This book presents a compendium of methodologies for the study of membrane lipids varying from traditional lab bench experimentation to computer simulation and theoretical models The volume provides a comprehensive set of techniques for studying membrane lipids with a strong biophysical emphasis It compares the various available

techniques including the pros and cons as seen by the experts *Immunoinformatics* Darren R. Flower,2008-02-07

Immunoinformatics Predicting Immunogenicity In Silico is a primer for researchers interested in this emerging and exciting technology and provides examples in the major areas within the field of immunoinformatics This volume both engages the reader and provides a sound foundation for the use of immunoinformatics techniques in immunology and vaccinology The volume is conveniently divided into four sections The first section Databases details various immunoinformatic databases including IMGT HLA IPD and SYPEITHI In the second section Defining HLA Supertypes authors discuss supertypes of GRID CPCA and hierarchical clustering methods Hla Ad supertypes MHC supertypes and Class I Hla Alleles The third section Predicting Peptide MCH Binding includes discussions of MCH binders T Cell epitopes Class I and II Mouse Major Histocompatibility and HLA peptide binding Within the fourth section Predicting Other Properties of Immune Systems investigators outline TAP binding B cell epitopes MHC similarities and predicting virulence factors of immunological interest Immunoinformatics Predicting Immunogenicity In Silico merges skill sets of the lab based and the computer based science professional into one easy to use insightful volume **Gene Function Analysis** Michael F. Ochs,2007-08-23 With the advent of high throughput technologies following completion of the human genome project and similar projects the number of genes of interest has expanded and the traditional methods for gene function analysis cannot achieve the throughput necessary for large scale exploration This book brings together a number of recently developed techniques for looking at gene function including computational biochemical and biological methods and protocols Cryopreservation and Freeze-Drying Protocols John G. Day,Glyn Stacey,2007-06-05 In addition to outlining the fundamental principles associated with the conservation of biological resources freeze drying and cryopreservation this text is a compilation of cryopreservation and freeze drying methodologies applicable to different biological materials developed by expert laboratories **Adhesion Protein Protocols** Amanda S. Coutts,2008-02-03 The second edition of Adhesion Protein Protocols combines traditional techniques with cutting edge and novel techniques that can be adapted easily to different molecules and cell types The topics discussed include novel techniques for studying cell cell adhesion neutrophil chemotaxis in vitro assays used to study leukocyte migration through monolayers of cultured endothelial cells and novel techniques to purify pseudopodia from migratory cells The protocols discussed in this volume are suitable for both novice and expert scientists who will gain further insight into the complex and incompletely understood processes involved in cellular adhesion

PCR Primer Design Anton Yuryev,2008-02-03 In the past decade molecular biology has been transformed from the art of cloning a single gene to a statistical science measuring and calculating properties of entire genomes New high throughput methods have been developed for genome sequencing and studying the cell at different systematic levels such as transcriptome proteome metabolome and other omes At the heart of most high throughput methods is the technique of polymerase chain reaction PCR PCR Primer Design focuses on primer design which is critical to both the efficiency and the

accuracy of the PCR With intricate descriptions of basic approaches as well as specialized methods this volume is an exceptional reference for all those involved in studying the genome In PCR Primer Design authors describe basic approaches for PCR primer design in addition to specialized methods These state of the art methods can be used for both genome scale experiments and for small scale individual PCR amplifications This volume will be useful for organizations performing whole genome studies companies designing instruments that utilize PCR and individual scientists geneticists molecular biologists molecular geneticists and more who routinely use PCR in their research **Topics in Biostatistics** Walter T.

Ambrosius,2007-07-06 This book presents a multidisciplinary survey of biostatistics methods each illustrated with hands on examples It introduces advanced methods in statistics including how to choose and work with statistical packages Specific topics of interest include microarray analysis missing data techniques power and sample size statistical methods in genetics The book is an essential resource for researchers at every level of their career **Quantitative Proteomics by Mass**

Spectrometry Salvatore Sechi,2008-02-05 Quantitative Proteomics by Mass Spectrometry from the Methods in Molecular Biology™ series is a compendium of cutting edge protocols for quantitative proteomics and presents the most significant methods used in the field today The focus on mass spectrometry MS is integral as MS has and will continue to be an essential tool in proteomics for studying complex biological systems and human diseases This volume written and compiled by leading quantitative proteomic experts is an indispensable resource in the search for novel biomarkers Quantitative Proteomics by Mass Spectrometry presents several innovative MS quantitative procedures including a variety of methods for introducing isotopic labels and quantifying post translational modifications Some of these methods include growing an organism in isotope enriched media performing trypsin proteolysis in the presence of ^{18}O water reacting protein samples with isotopically labeled reagents quantifying relative amount of proteins without the use of any isotopic labels Attention is also given to state of the art techniques for the characterization of the phosphoproteome and tandem MS for detection of inborn errors of metabolism Specifically the procedure for determinations of enzymatic activity could be used for large scale screening of newborns The protocols in this volume expand both the breadth and depth of readily available methods for quantitative proteomic researchers using MS **Microarray Data Analysis** Michael J. Korenberg,2008-02-03 In this new volume renowned authors contribute fascinating cutting edge insights into microarray data analysis Information on an array of topics is included in this innovative book including in depth insights into presentations of genomic signal processing Also detailed is the use of tiling arrays for large genomes analysis The protocols follow the successful Methods in Molecular Biology™ series format offering step by step instructions an introduction outlining the principles behind the technique lists of the necessary equipment and reagents and tips on troubleshooting and avoiding pitfalls **Post-Transcriptional Gene**

Regulation Jeffrey Wilusz,2008 Step by step instructions that ensure successful results **Stem Cell Assays** Mohan C. Vemuri,2007-08-10 The scope for improving health care using stem cell therapies is thrilling but has considerable technical

challenges and methodological constraints that need to be addressed Keeping with the tradition of Humana Press to bring these developments to the forefront in a timely manner this book presents scientific advances in stem cell methods for a wider use by novice and expert scientists through the series of Methods in Molecular Biology

Handbook of Molecular-Genetic Techniques for Brain and Behavior Research Wim E. Crusio, R.T. Gerlai, 1999-10-18 The book gives a broad overview of recombinant DNA techniques for the behavioral neuroscientist with illustrative examples of applications Species covered include rodents mainly mice *Drosophila melanogaster* *Caenorhabditis elegans* and *Danio rerio* Experimental techniques required to characterize the behavioral phenotypes of mutant animals is provided Several aspects of novel molecular genetic techniques are overviewed and possible research strategies are explained The sections of the book start with general descriptions of techniques followed by illustrative examples It is divided into six sections Section 1 bioinformatics and genomics research Section 2 top down strategies where the researcher starts with the phenotype and then analyzes the associated genes bottom up strategies where the physiological chain leading to a phenotype is analyzed starting from the gene product Section 3 transgenic approaches in rodents including overexpressing foreign genes and gene targeting systemic manipulation approaches directly targeting the central nervous system and methods used with invertebrates Section 4 methods used to evaluate relevant behavioral phenotypes including learning and aggression Section 5 examples on molecular brain research in man Section 6 ethical aspects of research in this field

Hedgehog Signaling Protocols Jamila I. Horabin, 2007-09-13 In both vertebrates and invertebrates Hedgehog signaling regulates the development of the tissues and structures of the body In addition many cancers and diseases arise as a result of misregulation of the pathway which makes it an incredibly important system to understand This volume examines various methods used in the analysis of the Hedgehog signaling pathway bringing together different lines of analyses into one accessible and comprehensive text This volume provides a single source for investigators presenting several different experimental approaches which are all varied and broad in nature as well as procedures for a variety of different model systems Researchers will find this volume to be an invaluable tool as they work towards deeper understanding of the underlying molecular events that the Hedgehog signaling pathway regulates

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