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Zymography Academic Press
This volume provides classic and new methods to study the structure, assembly pathway, and protein synthesis ability of mitoribosomes across species. Following an introduction of fundamental concepts on the topic, method chapters present detailed protocols based on cryo-electron tomography, cryo-EM approaches, mitoribosome purification techniques, mitochondrial translation assays, and methods to study mitochondrial mRNAs that are translated on mitoribosomes. 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 methods, includes tips on troubleshooting and known pitfalls, and step-by-step, readily reproducible protocols. Authoritative and cutting-edge, The Mitoribosome: Methods and Protocols, aims to be a comprehensive guide for researchers in the field.
Molecular Toxicology Protocols Springer Nature
Methods in Neurosciences, Volume 6: Neuropeptide Technology: Synthesis, Assay, Purification, and Processing describes procedures and tools of assay useful for the identification, purification, and quantification of neuropeptides and their receptors. This volume is divided into four sections— chemical synthesis and biosynthesis; measurement of neuropeptides; purification and characterization; and neuropeptide degrading and processing enzymes. In these sections, this book specifically discusses the synthesis of peptide substrates for protein kinase C; synthesis of glycosyl neuropeptides; and ultrastructural localization of peptides. The measurement of neurokinin B by radioimmunoassay; purification and characterization of neuroendocrine peptides from rat brain; and preparation of glia maturation factor ß are also elaborated. This text likewise covers the assays for arginine/lysine carboxypeptidases and enzymes that metabolize atrial natriuretic peptide. This publication is beneficial to neuroscientists and students researching on the synthesis, assay, purification, and processing of neuropeptides.
Receptor Molecular Biology Springer Science & Business Media
Hands-on researchers describe in step-by-step detail 73 proven laboratory methods and bioinformatics tools essential for analysis of the proteome. These cutting-

edge techniques address such important tasks as sample preparation, 2D-PAGE, gel staining, mass spectrometry, and post-translational modification. There are also readily reproducible methods for protein expression profiling, identifying protein-protein interactions, and protein chip technology, as well as a range of newly developed methodologies for determining the structure and function of a protein. The bioinformatics tools include those for analyzing 2D-GEL patterns, protein modeling, and protein identification. All laboratory-based protocols follow the successful Methods in Molecular BiologyTM 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.

Microbial Processes and Products Gulf Professional Publishing

In this 3 volume collection focusing on glycomics, readers will appreciate how such discoveries were made and how such methods can be applied for readers' own research efforts - Each chapter has been designed so that enough scientific background will be given in each chapter for further development of methods by readers themselves - Useful for all levels of scientists starting from the last years of colleges, graduate students, postdoctoral fellows to professors and to all levels of scientists in research institutes including industry

Histones Springer Nature

This new volume of Methods in Cell Biology looks at micropatterning in cell biology and includes chapters on protein photo-patterning on PEG with benzophenone, laser-directed cell printing and dip pen nanolithography. The cutting-edge material in this comprehensive collection is intended to guide researchers for years to come. - Includes sections on micropatterning in 2D with photomask, maskless micropatterning and 2D nanopatterning - Chapters are written by experts in the field - Cutting-edge material

Neurogenetics Academic Press

Guide to Protein Purification, Second Edition provides a complete update to existing methods in the field, reflecting the enormous advances made in the last two decades. In particular, proteomics, mass spectrometry, and DNA technology have revolutionized the field since the first edition's publication but through all of the advancements, the purification of proteins is still an indispensable first step in understanding their function. This volume examines the most reliable, robust methods for researchers in biochemistry, molecular and cell biology, genetics, pharmacology and biotechnology and sets a standard for best practices in the field. It relates how these traditional and new cutting-edge methods connect to the explosive advancements in the field. This "Guide to" gives imminently practical advice to avoid costly mistakes in choosing a method and brings in perspective from the premier researchers while presents a comprehensive overview of the field today. - Gathers top global authors from industry, medicine, and research fields across a wide variety of disciplines, including biochemistry, genetics, oncology, pharmacology, dermatology and immunology - Assembles chapters on both common and less common relevant

techniques - Provides robust methods as well as an analysis of the advancements in the field that, for an individual investigator, can be a demanding and time-consuming process

Public Health Microbiology Springer Science & Business Media

Volume 2 describes how to determine the activity of different isozymes, allozymes, and families of proteinases to advance the fields of enzymology and molecular evolution, and provides useful biomarkers for various biological processes, pathological conditions, and clinical disorders. The chapters in Volume 2 are organized in three parts. Part I introduces in situ zymography and localization of bright green-fluorescent gelatinase activity in tissue sections, in situ zymography in formalin-fixed paraffin-embedded and mineralized tissues, and in vivo zymography as an essential activity assay for studying the activity of matrix metalloproteinases (MMPs) in a cell-specific manner in the brain. Part II focuses on biological applications of zymography such as fundamentals of zymography and its applications to the study of biological samples, gelatin zymography to quantify MMP-2 and MMP-9 in complex biological specimens, and detection of proteolytic enzymes in polyacrylamide gels supplemented with diverse biological substrates. Part III focuses on potential clinical applications of zymography, with chapters describing assessment of MMP-2 and MMP-9 hydrolytic activity in preclinical and clinical tissue samples, the use of zymography to assess circulating MMP-2 and MMP-9 in plasma and serum and in pathological conditions, and the use of zymography for the detection of bacterial proteases. 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. Cutting-edge and thorough, Zymography: Biological and Clinical Applications, Volume II is a valuable resource for both experts in the field, as well as new scientists aspiring to learn and perform successful zymography techniques.!-- [if !supportLineBreakNewLine]--!--[endif]--

Glycomics Springer Science & Business Media

This second edition provides new and updated chapters on histones for molecular biologists, biochemists and geneticists. Chapters cover protein complexes that modify chromatin either by adding or removing post-translational modifications, or by exchanging histone variants within the nucleosome. Written in the highly successful Methods in Molecular Biology series format, the chapters include brief introductions to the material, lists of necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and a Notes section which highlights tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, Histones: Methods and Protocols, Second Edition aims to be comprehensive guide for researchers in the field.

Mitochondria Academic Press

Cell Biology: A Laboratory Handbook, Volume 3 is a handbook on cell biology and covers topics ranging from transfer of macromolecules and small molecules to cloning of embryos, transgenics, and gene targeting. Cell-free extracts, permeabilized cell systems, and expression systems are also discussed, along with proteins. Comprised of 58 chapters, this volume begins with a detailed account of microinjection of RNA, DNA, and proteins into somatic cells, followed by an analysis of computer-automated capillary microinjection of macromolecules into living cells. The reader is then introduced to syringe loading as a method for inserting macromolecules into cells in suspension; electroporation of cells; and the use of liposomes in drug targeting. Subsequent chapters focus on the cloning of rabbit embryos by nuclear transplantation; gene targeting by homologous recombination in embryonic stem cells; production and isolation of recombinant viruses; and gel electrophoresis. This book will be of interest to geneticists and molecular biologists.

The Protein Protocols Handbook Springer Science & Business Media

Over the past decades, the pathogenesis, diagnosis, treatment and prevention of cardiovascular diseases have been benefited significantly from intensive research activities. In order to provide a comprehensive “ manual ” in a field that has become as broad and deep as

cardiovascular medicine, this volume of "Methods in Molecular Medicine" covers a wide spectrum of in vivo and in vitro techniques encompassing biochemical, pharmacological and molecular biology disciplines which are currently used to assess vascular disease progression. Each chapter included in this volume focuses on a specific vascular biology technique and describes various applications as well as caveats of these techniques. The protocols included here are described in detail, allowing beginners with little experience in the field of vascular biology to embark on new research projects.

Molecular Pathology Protocols Springer Science & Business Media

A collection of both well-established and cutting-edge methods for investigating breast cancer biology not only in the laboratory, but also in clinical settings. These readily reproducible techniques solve a variety of problems, ranging from how to collect, store, and prepare human breast tumor samples for analysis, to analyzing cells in vivo and in vitro. Additional chapters address the technology of handling biopsies, new methods for analyzing genes and gene expression, markers of clinical outcome and progress, analysis of tumor-derived proteins and antigens, validating targets, and investigating the biology of newly discovered genes.

NLR Proteins Academic Press

EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

Bacterial Chromatin Springer Science & Business Media

The field of cell cycle regulation is based on the observation that the life cycle of a cell progresses through several distinct phases, G1, M, S, and G2, occurring in a well-defined temporal order. Details of the mechanisms involved are rapidly emerging and appear extraordinarily complex. Furthermore, not only is the order of the phases important, but in normal eukaryotic cells one phase will not begin unless the prior phase is completed successfully. Che-point control mechanisms are essentially surveillance systems that monitor the events in each phase, and assure that the cell does not progress prematurely to the next phase. If conditions are such that the cell is not ready to progress—for example, because of incomplete DNA replication in S or DNA damage that may interfere with chromosome segregation in M—a transient delay in cell cycle progression will occur. Once the inducing event is properly handled—for example, DNA replication is no longer blocked or damaged DNA is repaired—cell cycle progression continues. Checkpoint controls have recently been the focus of intense study by investigators interested in mechanisms that regulate the cell cycle. Furthermore, the relationship between checkpoint c- trol and carcinogenesis has additionally enhanced interest in these cell cycle regulatory pathways. It is clear that cancer cells often lack these checkpoints and exhibit genomic instability as a result. Moreover, several tumor suppressor genes participate in checkpoint control, and alterations in these genes are as- ciated with genomic instability as well as the development of cancer.

Proteome Research: Two-Dimensional Gel Electrophoresis and Identification Methods Springer Science & Business Media

A collection of cutting-edge techniques for analyzing genotoxic exposure and detecting the resulting biological effects-including endogenous metabolites-up to and including the development of cancer. The authors emphasize analytical methods that can be specifically applied to human populations and patients. Among the applications detailed are the analysis of interactions between such cellular macromolecules as DNA and proteins and chemical and physical agents, the assessment of medically relevant toxicity, and the characterization of genetic alterations induced in transgenic animals by in vivo systems. There are also methods for the analysis of genotoxic exposure during gene expression, of cytotoxicity caused by the induction of apoptosis, of genetic alterations in reporter genes and oncogenes, early (premalignant) detection of altered oncogenes, and of individual variation in biotransformation and DNA repair capacity.

Neuropeptide Technology Elsevier

This detailed volume presents a series of protocols dealing with different aspects of inclusion body (IB) processing, from cloning procedures to purification of refolded product. Commencing with chapters on upstream processing, looking into different expression strategies for IB production, the book continues with downstream applications, highlighting early protein purification and subsequent analytics, as well as success stories of IB-based processes. 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, Inclusion Bodies: Methods and Protocols serves as an ideal resource for facilitating diverse aspects of IB processing.

Methods in Mycoplasmology V1 Springer Science & Business Media

Dr. Tom Moss assembles the new standard collection of cutting-edge techniques to identify key protein-DNA interactions and define their components, their manner of interaction, and their manner of function, both in the cell and in the test tube. The techniques span a wide range, from factor identification to atomic detail, and include multiple DNA footprinting analyses, including in vivo strategies, gel shift (EMSA) optimization, SELEX, surface plasmon resonance, site-specific DNA-protein crosslinking, and UV laser crosslinking. Comprehensive and broad ranging, DNA-Protein Interactions: Principles and Protocols, 2nd Edition, offers a stellar array of over 100 up-to-date and readily reproducible techniques that biochemists and molecular, cellular, and developmental biologists can use successfully today to understand DNA-protein interactions.

Authentication Of Chinese Medicinal Materials By Dna Technology: Techniques And Applications (Second Edition) Springer Science & Business Media

This fully revised new edition explores advances in the prevention and treatment of oral diseases. Beyond the updated chapters, the book delves into regenerative biology, gene editing and the use of CRISPR in oral biology, as well as histone acetylation and deacetylation methods, further reflecting advances in the application of molecular techniques to oral biology. 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 up-to-date, Oral Biology: Molecular Techniques and Applications, Third Edition serves as an ideal basic resource not only for new researchers but also for experienced scientists wishing to expand their research platform into new areas of this vital field.

Clinical Proteomics World Scientific

Methods in Enzymology series, highlights new advances in the field, with this new volume presenting interesting chapters. Each chapter is written by an international board of authors. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in the Methods of Enzymology series - Updated release includes the latest information on the Synthetic and Enzymatic Modifications of the Peptide Backbone

The Mitoribosome Springer Science & Business Media

Enzymes in RNA Science and Biotechnology, Volume 691 in the Methods in Enzymology series, highlights new advances in the field, including chapters on Reverse transcriptase Part I (discovery, preparation, general utilization, MarathonRT for routine RT-PCR and for cDNA synthesis on challenging RNA templates Structured RNAs, repeat RNAs and more, Engineering TNA Polymerases Through Iterative Cycles of Directed Evolution, Reverse transcriptase Part II (RNA structure mapping and determination), RNA G-quadruplex (rG4) structure detection using RTS and SHALiPE assays, tRNA Structure-seq in vivo and in droplets, Capture the in vivo intact RNA

structurome by CAP-STRUCTURE-seq, and more. - Provides the authority and expertise of leading contributors from an international board of authors - Presents the latest release in Methods in Enzymology serials - Updated release includes the latest information on Enzymes in RNA science and biotechnology

Guide to Protein Purification Springer Nature Public Health Microbiology: Methods and Protocols is focused on microorganisms that can present a hazard to human health in the course of everyday life. There are chapters dealing with organisms that are directly pathogenic to humans, including bacteria, viruses, and fungi; on organisms that produce toxins during growth in their natural habitats; on the use of bacteriocins produced by such organisms as lactobacilli and bifidobacteria; as well as several chapters on hazard analysis, the use of disinfectants, microbiological analysis of cosmetics, and microbiological tests for sanitation equipment in food factories. Additional chapters look at the use of animals (mice) in the study of the various characteristics of milk and their relationships with lactic acid bacteria in particular. Other chapters focus on special methods for determining particular components of milk. In particular, in Parts I and II, on bacterial and viral pathogens, special attention is given to methods for PCR detection of genes with resistance to tetracycline, as well as to Salmonella enterica; for identification and typing of Campylobacter coli; for detection of the abundance of enteric viruses, hepatitis A virus, and rotaviruses in sewage, and of bacteriophages infecting the O157:H7 strain of Escherichia coli. Part III offers methods for computerized analysis and typing of fungal isolates, for isolation and enumeration of fungi in foods, and for the determination of aflatoxin and zearalenone.