

Methods in ENZYMOLLOGY

Volume 199

Cumulative Subject Index

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Methods In Enzymology Volume 168

Lynne E. Maquat, Megerditch Kiledjian



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Neuroendocrine Peptide Methodology P. Michael Conn, 2012-12-02 *Neuroendocrine Peptide Methodology*

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Neuropeptide Y Protocols Ambikaipakan Balasubramaniam, 2008-02-05 The observation that neuropeptide Y NPY is the most abundant peptide present in the mammalian nervous system and the finding that it elicits the most powerful orexigenic signal have led to active investigations of the properties of the NPY family of hormones including peptide YY PYY and pancreatic polypeptide PP Nearly two decades of research have led to the identification of several NPY receptor subtypes and the development of useful receptor selective ligands Moreover these investigations have implicated NPY in the pathophysiology of a number of diseases including feeding disorders seizures memory loss anxiety depression and heart failure Vigorous efforts are therefore continuing not only to understand the biochemical aspects of NPY actions but also toward developing NPY based treatments for a variety of disorders To facilitate these efforts it was decided to produce the first handbook on NPY research techniques as part of the *Methods in Molecular Biology Series* In compiling *Neuropeptide Y Protocols* I have gathered contributions on techniques considered critical for the advancement of the NPY field from experts in various disciplines Each chapter starts with a brief introduction with Materials and Methods sections following The latter sections are presented in an easy to follow step by step format The last section of the chapter Notes highlights pitfalls and the maneuvers employed to overcome them This information not usually disseminated in standard research publications may prove extremely useful for investigators employing these techniques in NPY research

Non-Natural Amino Acids, 2009-07-24 By combining the tools of organic chemistry with those of physical biochemistry and cell biology *Non Natural Amino Acids* aims to provide fundamental insights into how proteins work within the context of complex biological systems of biomedical interest The critically acclaimed laboratory standard for 40 years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike With more than 400 volumes published each *Methods in Enzymology* volume presents material that is relevant in today's labs truly an essential publication for researchers in all fields of life sciences Demonstrates how the tools and principles of chemistry combined with the molecules and processes of living cells can be combined to create molecules with new properties and functions found neither in nature nor in the test tube Presents new insights into the molecular mechanisms of complex biological and chemical systems that can be gained by

studying the structure and function of non natural molecules Provides a one stop shop for tried and tested essential techniques eliminating the need to wade through untested or unreliable methods *GTPases Regulating Membrane Dynamics* W. E. Balch, Channing J. Der, Alan Hall, 2005-12-13 Provides a comprehensive set of articles describing the use and application of state of the art methodologies to identify and characterize these GTPases and their expanding list of regulators and effectors This work also includes methodologies focused on biochemical molecular and advanced imaging techniques

DNA Microarrays, Part A: Array Platforms and Wet-Bench Protocols, 2011-08-19 Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment These two volumes Parts A B in the Methods in Enzymology series provide methods that will shepherd any molecular biologist through the process of planning performing and publishing microarray results Part A starts with an overview of a number of microarray platforms both commercial and academically produced and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status Wet bench protocols and troubleshooting techniques continue into Part B These techniques are well rooted in traditional molecular biology and while they require traditional care a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations Data management is a more recent problem for most biologists The bulk of Part B provides a range of techniques for data handling This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources There are chapters in Part B for both the debutant and the expert bioinformatician Provides an overview of platforms Includes experimental design and wet bench protocols Presents statistical and data analysis methods array databases data visualization and meta analysis [RNA Turnover in Eukaryotes: Analysis of Specialized and Quality Control RNA Decay Pathways](#) Lynne E. Maquat, Megerditch Kiledjian, 2011-09-02 Specific complexes of protein and RNA carry out many essential biological functions including RNA processing RNA turnover and RNA folding as well as the translation of genetic information from mRNA into protein sequences Messenger RNA mRNA decay is now emerging as an important control point and a major contributor to gene expression Continuing identification of the protein factors and cofactors and mRNA instability elements responsible for mRNA decay allow researchers to build a comprehensive picture of the highly orchestrated processes involved in mRNA decay and its regulation Covers the nonsense mediated mRNA decay NMD or mRNA surveillance pathway Expert researchers introduce the most advanced technologies and techniques Offers step by step lab instructions including necessary equipment and reagents *Enzyme Kinetics and Mechanisms, Part E, Energetics of Enzyme Catalysis*, 1999-09-06 This volume supplements Volumes 63 64 87 and 249 of Methods in Enzymology These volumes provide a basic source for the quantitative interpretation of enzyme rate data and the analysis of enzyme catalysis Among the major topics covered are Energetic Coupling in Enzymatic Reactions Intermediates

and Complexes in Catalysis Detection and Properties of Low Barrier Hydrogen Bonds Transition State Determination and Inhibitors The critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences

Neurobiology of Steroids E. Ronald de Kloet, 2013-10-22 Steroid hormones are unique compounds in that they are active at the interface of peripheral endocrine events and neural mechanisms Thus their effects present an important peripheral signaling system to alter brain function This volume presents state of the art and classical techniques for the study of steroid hormones and their receptors and their effects and actions Comprehensive protocols included for the study of Steroid kinetics and metabolism Steroid receptors Molecular and cellular effects of steroids Steroid effects on integrated systems

Methods in Methane Metabolism, Part A Amy Rosenzweig, Stephen W. Ragsdale, 2011-05-11 Produced by microbes on a large scale methane is an important alternative fuel as well as a potent greenhouse gas This volume focuses on microbial methane metabolism which is central to the global carbon cycle Both methanotrophy and methanogenesis are covered in detail Topics include isolation and classification of microorganisms metagenomics approaches biochemistry of key metabolic enzymes gene regulation and genetic systems and field measurements The state of the art techniques described here will both guide researchers in specific pursuits and educate the wider scientific community about this exciting and rapidly developing field Topics include isolation and classification of microorganisms metagenomics approaches biochemistry of key metabolic enzymes gene regulation and genetic systems and field measurements The state of the art techniques described here will both guide researchers in specific pursuits and educate the wider scientific community about this exciting and rapidly developing field

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