



RECEPTOR BIOCHEMISTRY AND METHODOLOGY SERIES

# RECEPTOR LOCALIZATION

LABORATORY METHODS  
AND PROCEDURES

MARJORIE A. ARIANO

# Receptor Localization Laboratory Methods And Procedures

**Domenico Accili**



## **Receptor Localization Laboratory Methods And Procedures:**

**Receptor Localization** Marjorie Ariano, 1998-07-16 The detection of neurotransmitter receptor locations and distribution densities within the central nervous system and peripheral tissues is receiving intense attention within the neuroscience research community. Neurotransmitter receptors which receive the chemical signals sent from one neuron to another are critical links in a highly complex information processing chain. Pinpointing receptor sites and systems is crucial for understanding neurological function as well as dysfunction. It is also essential for understanding how receptors process information when impacted by such substances as heroin or nicotine or when affected by neurodegenerative disease. *Receptor Localization Laboratory Methods and Procedures* is the first user friendly guide to the latest techniques and approaches being employed to examine the localization of neurotransmitter receptors in the central nervous system and peripheral tissues. It covers detection methods that are applicable to a wide variety of receptor systems ranging from genes and ligands to in vitro receptors in individuals and to numerous receptor subtypes such as nicotine, muscarine, tachykinins, dopamine, adenosine and GABA. The standard laboratory recipes or tricks employed in these detection methods are fully discussed as are the advantages and limitations of each procedure. With contributions from leading experts and extensively illustrated, this book discusses receptor ligand binding methods using irreversible and reversible compounds. Presents antireceptor antisera technology using synthetic peptides and fusion proteins at both the cellular and subcellular resolution levels. Examines molecular assessments of receptors. Describes in situ hybridization, reverse transcriptase PCR and fluorescent in situ transcription. Covers new visualization paradigms. Includes physiological analysis of receptor function, cellular detection in the brain slice and cultured neurons. Discusses the use of PET and SPECT to assess in vivo receptor distributions in animals and humans. *Receptor Localization Laboratory Methods and Procedures* is an invaluable guide for researchers in the related fields of neurology, biochemistry and pharmacology. Its lucid descriptions of new detection methods, inclusion of experimental examples and emphasis on how these experimental approaches are applicable to particular research areas will appeal to both the experienced researcher and novice investigator.

**NMDA Receptor Protocols** Min Li, 2008-02-03 Min Li and a panel of hands on experimentalists detail state of the art molecular techniques for studying NMDA ligand gated ion channels and developing assays for nontherapeutic lead selection. The topics range from cDNA cloning to in vitro and in vivo investigation of the channel complex in the mammalian brain. Additional topics include the biochemical analysis of the channel protein and the construction of various heterologous systems for both basic research and high throughput screens (HTS) for pharmaceutical chemicals. Although the focus is on NMDA receptors, the methods are applicable to other ligand gated ion channels and with some modification may be extended to related membrane signaling receptors. *NMDA Receptor Protocols* offers today's scientists powerful methods for basic research on NMDA receptor structure and function as well as enormous opportunities for clinical investigation toward the development of novel bioactive

compounds

**Regulation of G Protein Coupled Receptor Function and Expression** Jeffrey L. Benovic, 1999-11-12

Recent advances in molecular and cell biology enabling the cloning expression and mutagenesis of signal transduction proteins has prompted an explosion of knowledge in the field of receptor regulation facilitating the discovery of new classes of regulatory proteins and providing a basis and means for manipulating receptor function through multiple intracellular targets This volume covers methods used to examine how the functions of receptors are regulated Understanding how to regulate the function and expression of these receptors is critical in determining how to modify receptors and to translocating receptors away from the cell surface and its recycling Individual chapters focus on specific techniques used to characterize receptors epitope tagging measurement and analysis of receptor phosphorylation analysis of the kinetics of receptor desensitization and assessment of receptor G protein coupling the role of regulatory proteins receptor kinases and phosphatases arrestins in modulating receptor function and the methods used to measure receptor trafficking ligand binding immunofluorescence and expression transcriptional and translational regulation Covers a broad range of important concepts and methodologies which are current in the study of G protein coupled receptors GPCRs G protein coupled receptors make up over 40% of the current pharmacological targets Provides detailed protocols for executing various strategies and offers informed judgments as to what approaches are and are not useful Volume Editor Jeffrey Benovic is a dominant world leader in the study of receptor regulation of GPCR kinases and is highly respected in the field

**Glutamate** J. Storm-Mathisen, O.P. Ottersen, 2000-11-03 The volume presents a comprehensive and up to date treatise of the glutamatergic synapse and its environment Particular emphasis is on the localizations of the molecular constituents of the synaptic machinery Immunogold and other high resolution methods are used extensively Each chapter presents new data that have not previously been reviewed The material presented forms the basis for work directed to understanding the functional properties of excitatory synapses in greater depth to discover mechanisms of neurological and psychiatric disorders and novel methods for treatment Chapter 1 deals with the transmitter molecule itself mechanisms of release and pathways for glutamate synthesis The anatomy of glutamatergic nerve projection pathways in different brain regions is dealt with In Chapter 2 focus is on aspartate the enigmatic congener of glutamate and its possible role in excitatory neurotransmission Chapters 3 through 6 deal with glutamate receptors Metabotropic glutamate receptors are presented in Chapter 3 Chapter 4 presents an in situ hybridization atlas of the different classes of ionotropic glutamate receptors The localizations of these receptors at the regional and synaptic level are presented in Chapter 5 The ways in which the receptors are brought to the synapse and held in position are the subject of Chapter 6 Chapter 7 deals with the enzymes responsible for formation and catabolism of glutamate In Chapter 8 the regulation of extracellular glutamate levels by glutamate transporters is discussed The final two chapters of the volume focus on two model synapses that due to special features lend themselves particularly well to demonstrating properties of glutamatergic synapses The hair cell to afferent nerve terminal synapses in the inner ear

Chapter 9 with their supporting cells share essential properties with glutamatergic synapses in the central nervous system. The salient features of the latter are illustrated by the synapses of the giant reticulo spinal axons of the lamprey used to unravel molecular mechanisms of the cycling of synaptic vesicles. Chapter 10      **Dopamine Handbook** Leslie L. Iversen, 2010. The discovery of dopamine in 1957-1958 was one of the seminal events in the development of modern neuroscience and has been extremely important for the development of modern therapies of neurological and psychiatric disorders. Dopamine has a fundamental role in almost all aspects of behavior from motor control to mood regulation, cognition and addiction, and dopamine research has been unique within the neurosciences in the way it has bridged basic science and clinical practice. Over the decades, research into the role of dopamine in health and disease has been in the forefront of modern neuroscience. The Dopamine Handbook is the first single volume publication to capture current progress and excitement in this dynamic research field.      Identification and Expression of G Protein-Coupled Receptors Kevin R. Lynch, 1999-05-10. The past decade has seen tremendous advances in the study of G protein coupled receptors (GPCRs) including the molecular cloning and identification of more than 100 hundred GPCR genes. But while GPCRs serve as targets for more than 300 medicines in the modern pharmacopoeia, the shrinking pool of known ligands and the continuing discovery of orphan GPCR genes have underscored the need for new approaches to ligand identification. Identification and Expression of G Protein Coupled Receptors addresses this new direction in GPCR biochemistry, offering a definitive laboratory bench manual that emphasizes expression over primary cloning strategies. In a series of expert contributions by well known researchers, this book provides detailed protocols for various expression systems from bacteria to mammalian cells, as well as straightforward opinions on the advantages and shortcomings of each approach. Topics covered include Homology screening and the polymerase chain reaction in the cloning of GPCR genes; Cloning of GPCRs using mammalian cell expression; GPCR informatics and the orphan problem; The use of *Xenopus laevis* oocytes for the study of GPCRs; Stable expression of GPCRs in mammalian cells; Heterologous expression in primary cell cultures; Expression of GPCR in *Escherichia coli*; Large scale expression and purification of GPCRs in mammalian cells; High level expression of GPCRs in the Baculovirus Sf9 cell expression system; Expression of GPCRs in *Drosophila Schneider* 2 cells; Methods for genetic analysis and ligand identification using heterologous GPCRs expressed in *Saccharomyces cerevisiae*. Supplemented with numerous photographs and illustrations, Identification and Expression of G Protein Coupled Receptors is important reading for biochemists, pharmacologists, neuroscientists, structural biologists, and anyone involved in GPCR based research. It delivers a wealth of useful advice, practical tips, and invaluable insight into trends at the cutting edge of current research.      *Transmembrane Transporters* Michael W. Quick, 2003-03-31. A must have far reaching text that provides readers with a state of the art molecule update on transmembrane transporters, focusing on the methodological approaches currently employed to better understand how transporters work and how they can be used in cutting edge therapies. Each chapter begins with an overview

of the important biological questions presently being considered in their field then presents scientific approaches to address these questions In explaining approaches the authors cover bench top protocols conceptual frameworks data obtained and pitfalls common to the techniques *Chemtracts* ,1999 **Sleep-Related Breathing Disorders** Miodrag Radulovacki,2002-12-12 Systematically assessing the relative strengths and weaknesses of various animal model systems this reference presents an overview of the known pathophysiology of sleep related breathing disorders It focuses exclusively on animal based experimental approaches to improve current diagnostic and therapeutic practices in the management of these disorders Providing a fundamental understanding of sleep related breathing disorders the book introduces sleep disorders and applies modern neuroscience to regulation of breathing during sleep The authors have collected nearly all known studies summarized the data and provided easy to understand diagrams charts and figures *Dopamine in the CNS II* Gaetano Di Chiara,2002-06-27 With contributions by numerous experts **Parkinson's Disease** Richard Nass,Serge Przedborski,2011-04-28 Parkinson s disease is the second most prevalent neurodegenerative disease and is characterized by the irreversible loss of dopamine neurons Despite its high prevalence in society and many decades of research the origin of the pathogenesis and the molecular determinants involved in the disorder has remained elusive Confounding this issue is the lack of experimental models that completely recapitulate the disease state The identification of a number of genes thought to play a role in the cell death and development of both toxin and genetic models to explore the function of the genes both in unaffected and diseased cells are now providing new insights into the molecular basis of the neurodegeneration as well as therapeutic approaches In this reference we will describe the advances and the advantages that various invertebrates cell culture rodents and mammals provide in the identification of the molecular components and mechanisms involved in the cell death and outline the opportunities that these systems provide in drug discovery Comprehensive and critical assessment of the utility of various model systems to identify the molecular components and pathways involved in Parkinson s disease Describes the power of toxin and genetic models to identify novel therapeutic targets and compounds that can be used in PD Current overviews of current status of PD research and discovery from bench to bedside Provides novel insights and views on where the future of PD research may lead Provides a powerful teaching tool and template to explore the utility of model systems to identify molecular pathways molecular targets and therapeutics that are applicable to a variety of neurological diseases *Structure-Function Analysis of G Protein-Coupled Receptors* Jürgen Wess,1999-06-15 G protein coupled receptors GPCRs are the largest single class of receptors in biology often playing key roles in a remarkably large number of physiological and pathophysiological conditions GPCRs or GPCR dependent signalling pathways are the targets of a very large number of therapeutically useful drugs Detailed knowledge about the molecular structure of GPCRs should therefore pave the way for the design of novel drugs with increased efficacy and specificity This volume provides a concise up to date presentation of methods including molecular genetic biochemical and biophysical which have been used successfully in

studying the structure and function of GPCRs With contributions from international leaders in the field the editor provides overviews of various techniques followed by in depth descriptions of basic procedures and discussions of critical experimental parameters Divided into specific accessible sections Structure Function Analysis of G Protein Coupled Receptors includes An overview of mutagenesis techniques Examples of molecular modeling techniques Using peptides as tools for the study of GPCR interactions Site Directed Spin Labeling SDSL studies of the GPCR rhodopsin A complete description of the electron crystallographic analysis of two dimensional rhodopsin crystals The use of nuclear magnetic resonance techniques to study GPCR structure

**Brain Mapping** Arthur W. Toga, John C. Mazziotta, 2000-04-26 The sequel to Brain Mapping The Methods covers the utilization of methods for the study of brain structure and function Organized by systems it presents information on the normal as well as the diseased brain It integrates the various methodologies with appropriate usage

Annals of Clinical Biochemistry, 1999

**Genetic Manipulation of Receptor Expression and Function** Domenico Accili, 2000-04-13 Our ability to manipulate the genome of living organisms for the elucidation of gene function in vivo has improved dramatically over the last decade Genetic Manipulation of Receptor Expression and Function provides a comprehensive review of the principles and applications for genetic manipulation of receptor expression and function By providing the necessary conceptual framework of transgenic and knockout technologies Genetic Manipulation of Receptor Expression and Function offers a concise and easily accessible analysis for researchers The material reviews the numerous advances in the field of transgenic technology allowing researchers to alter expression and function in the mouse genome This volume also Provides a roadmap to transgenic and knockout methodology Includes a detailed explanation of the differences between embryonic stem cells and fertilized zygotes Clarifies the use of a DNA construct to make a transgenic mouse and a targeting vector for a knockout Reviews the considerable progress in receptor research Covers rapidly changing aspects in transgenic mouse technology such as the generation of transgenic mice using large DNA fragments the role of modifier genes the importance of behavioral testing in analyzing disease phenotypes and the growing role of antisense techniques in studies of gene function Receptor biochemists neuroscientists molecular biologists cell biologists and molecular geneticists will find Genetic Manipulation of Receptor Expression and Function a useful guide

G Protein-Coupled Receptor--Protein Interactions Susan R. George, Brian F. O'Dowd, 2005-03-31 This exciting volume elucidates how GPCRs organize signal transduction and control intracellular activities Chapters written by the recognized expert in each respective topic offer state of the art updates on the principles and technology as well as stepwise protocols for methods currently applied to the analysis of protein receptor interactions

**Cloning of Aplysia Glutamate Receptor Subunit Genes** Sookhee Chun, 2002

**Annual Report** University of California, Los Angeles. Brain Research Institute, 1997

Dental Radiography - E-Book Joen Iannucci, Laura Jansen Howerton, 2011-03-14 Providing essential coverage of dental radiography principles and complete technical instruction Dental Radiography Principles and Techniques 4th Edition is your

key to the safe effective use of radiation in the dental office The first ever full color dental radiography resource this combination of a textbook and a training manual guides you step by step through common procedures with accompanying illustrations case studies and interactive exercises to help you apply what you ve learned to practice A concise straightforward writing style makes complex concepts more accessible and helps you easily identify the most important information Step by step procedures combine clear instructions with anatomical drawings positioning photos and corresponding radiographs to help you confidently and accurately perform specific techniques thus minimizing radiation exposure to the patient Helpful Hints detail common problems you may encounter in practice and provide a checklist to guide you through the do s and don ts of imaging procedures Quiz Questions at the end of each chapter assess your understanding of important content Key terms learning objectives and chapter summaries highlight essential information to help you study more efficiently Interactive exercises terminology games and case studies modeled on the National Board Dental Hygiene Examination NBDHE on Evolve reinforce your understanding and help you prepare for examinations New chapter on cone beam computed tomography CBCT familiarizes you with emerging practices in dental radiography Updated chapter discussions and new radiographs keep you up to date on the latest information in digital imaging UNIQUE Full color design and new illustrations and photographs clarify difficult concepts and help you master proper positioning techniques UNIQUE A comprehensive appendix provides quick easy access to all mathematical formulas used in dental radiography

*Actions of Prolactin On Molecular Processes* James A. Rillema, 2018-01-10 It is well established tht the intial interaction of prolactin with its target cells is with specific receptor molecules located on the external surface of the plasma membrane Subsequent to the prolactin receptor interaction however the molecular events that culminate in the regulation of biological processes are not totally understood This book was assembled to review and analyse the currently available information relative to the molecular events involved in the actions of prolactin on cells Hopefully the assimilation of this information will provide the basis for ultimately determining the sequence of molecular reactions by which prolactin expresses its biological responses



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