

Springer Handbook

Edited by  
David Klapper

# Serotonin Receptor Technologies

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**Acta Neurologica**, 1987      **Journal of Experimental Biology**, 2001      *Forthcoming Books* Rose Army, 1986  
Archives of Gerontology and Geriatrics, 1992      Receptor Binding Alan A. Boulton, Glen B. Baker, Pavel D.

Hrdina, 1986-06-20 Techniques in the neurosciences are evolving rapidly. There are currently very few volumes dedicated to the methodology employed by neuroscientists and those that are available often seem either out of date or limited in scope. This series is about the methods most widely used by modern day neuroscientists and is written by their colleagues who are practicing experts. Volume 1 will be useful to all neuroscientists since it concerns those procedures used routinely across the widest range of disciplines. Collecting these general techniques together in a single volume strikes us not only as a service but will no doubt prove of exceptional utilitarian value as well. Volumes 2 and 3 describe all current procedures for the analyses of amines and their metabolites and of amino acids respectively. These collections will clearly be of value to all neuroscientists working in or contemplating research in these fields. Similar reasons exist for Volume 4 on receptor binding techniques since experimental details are provided for many types of ligand receptor binding including chapters on general principles drug discovery and development and a most useful appendix on computer programs for Scatchard nonlinear and competitive displacement analyses. Volume 5 provides procedures for the assessment of enzymes involved in biogenic amine synthesis and catabolism. Volumes in the NEUROMETHODS series will be useful to neurochemists pharmacologists physiologists anatomists psychopharmacologists psychiatrists neurologists and chemists organic analytical pharmaceutical medicinal in fact everyone involved in the neurosciences both basic and clinical. *Receptor Binding. Neuromethods* Alan A. Boulton, Glen B. Baker, Pavel D. Hrdina, 1986      **Brain Receptor Methodologies Pt A** Paul J. Marangos, 2012-12-02 Brain Receptor Methodologies Part A General Methods and Concepts Amines and Acetylcholine provides information pertinent to neurotransmitter and neuromodulator receptors in brain. This book explores the methodologies that can be used to address several basic and clinical problems. Organized into two sections encompassing 18 chapters this book starts with an overview of the receptor concept which can be validated from indirect evidence obtained in studies of the quantitative aspects of drug antagonism. This text then examines the radioligand receptor binding interactions. Other chapters consider immunocytochemistry which has a primary role in determining the precise distribution of regulatory peptides to neural and endocrine elements of the diffuse neuroendocrine system. The final chapter discusses the use of the radioligand binding procedure for the study of muscarinic receptors which has expanded the area of muscarinic receptor pharmacology. Biochemists pharmacologists physiologists and researchers engaged in the fields of neurobiology and neuroscience will find

this book extremely useful      Neurochemistry of Cholinergic Receptors Eduardo D. P. De Robertis, Jochen Schacht, 1974

**Receptors in the Nervous System** Abel Lajtha, 2013-06-29 A major advance in the biological sciences in the past decade has been the biochemical identification of cell membrane receptors. The existence of receptor substances on the surface of cells that recognize and bind to extracellular molecules was proposed at the beginning of the century by the pharmacologist and immunologist Paul Ehrlich and the physiologist J. N. Langley. Since then receptors have been found to play an important role in numerous physiological and pathological processes. Over the years many attempts have been made to physically isolate and chemically characterize receptors but because of the receptors' extremely low concentration and membrane localization these efforts have met with limited success. Yet despite the failure to characterize receptor substances the concept of the presence of such molecules has had considerable heuristic value. Using pharmacological, physiological and immunologic approaches researchers have identified several specific receptors e.g.  $\alpha$  and adrenergic, nicotinic and muscarinic cholinergic and histaminergic. With the characterization of various types of receptors on cell membranes many drugs were developed that proved to be experimentally and therapeutically useful. It was only in the early 1970s that methods for the specific measurement, chemical characterization and physical isolation of cell membrane receptors were developed. These advances were made possible by the availability of ligands with high specific radioactivity that retained their biological activity and of experimental procedures that differentiated between specific and non specific binding of ligands.

**Brain Receptor Methodologies** Paul J. Marangos, Iain C. Campbell, Robert M. Cohen, 2013-10-22

**Brain Receptor Methodologies Part B: Amino Acids, Peptides, Psychoactive Drugs** is the second of the two part first volume of the Neurobiological Research series which provides a comprehensive view of various subdisciplines within neurobiology. The first volume Parts A and B deals with the area of neurotransmitter and neuromodulator receptors in brain; future volumes will cover the subdisciplines of neuroanatomy, neurophysiology, brain specific macromolecules, neurochemistry and behavioral neurobiology. It is hoped that the series will be of equal value for both basic as well as clinical scientists. Part B continues from Part A with the remainder of Section II: specific receptor binding methodologies. Subsection II B deals with receptors for amino acids and neuropeptides and covers areas including GABA, glycine, carnosine, opiates, bombesin, CCK, TRH and substance P. Amino acids probably represent the majority of brain neurotransmitter substances at least relative to the amines and acetylcholine although with the exception of GABA the amino acids remain relatively uncharacterized in brain. Their further study should receive high priority.

**Chemical and Functional Assays of Receptor Binding** Barry I. Hoffer, Society for Neuroscience, Nancy R. Zahniser, 1986

**Methods in Neurotransmitter Receptor Analysis** Henry I. Yamamura, S. J. Enna, Michael J. Kuhar, 1990

Neuropeptide Analogs, Conjugates, and Fragments P. Michael Conn, 2013-10-22 **Methods in Neurosciences Volume 13: Neuropeptide Analogs, Conjugates and Fragments** covers the synthesis and characterization of peptide analogs, conjugates and fragments, their use as ligands for receptors and their role

in the development and use of antisera The book discusses techniques such as novel synthetic approaches biotinylation purification and characterization radioligand techniques and assay development use of agonists and antagonists distinguishing receptor subtypes conjugation to carrier proteins antiidiotypic antibody development and radiolabeling Neuroscientists biochemists neurochemists and pharmacologists will find the book useful *Regulation of Transmitter Function* European Society for Neurochemistry. Meeting, 1984

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