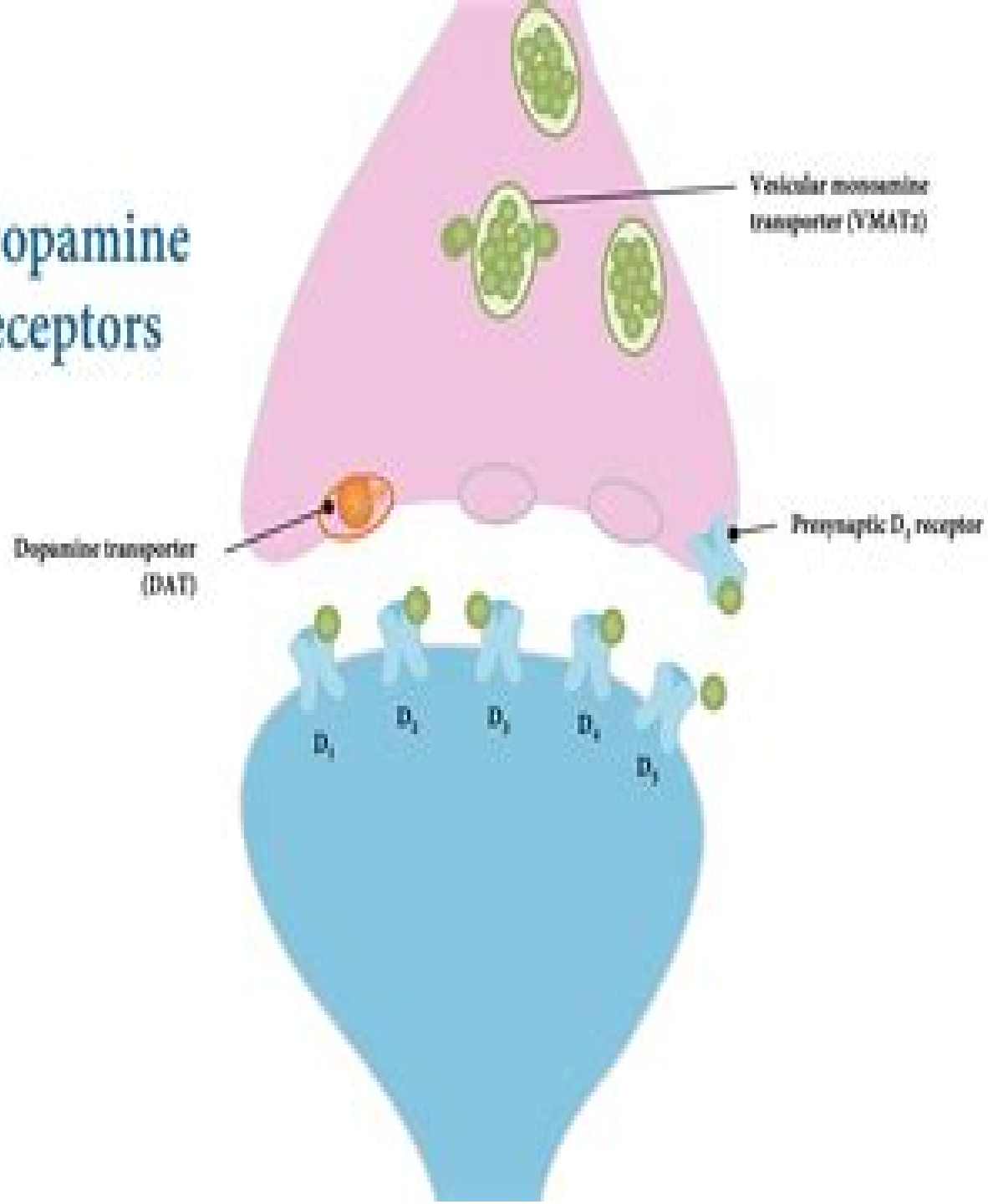


Dopamine receptors



Neurobiology Of Central D1 Dopamine Receptors

George Breese



Neurobiology Of Central D1 Dopamine Receptors:

Neurobiology of Central D1-Dopamine Receptors George Breese, 2013-03-09 Our understanding of the functional mechanisms relating dopamine activity to normal and abnormal behavior has been turned upside down by the recent developments described in the chapters of this volume. Heretofore it was generally agreed that all of the pharmacological and behavioral properties ascribed to dopamine systems were mediated via activation or inhibition of the subtype of dopamine receptors termed D2. The properties of these receptors were first characterized in 1975 following their identification by receptor binding techniques utilizing ³H butyrophenones, potent antipsychotic drugs used in the treatment of schizophrenia. Although another subtype of dopamine receptor had already been identified a few years earlier, now termed the D1 receptor, its functional properties were unknown other than the fact that it was associated with the activation of the enzyme adenylate cyclase. Our absence of knowledge of the behavioral functions of this receptor stemmed primarily from the lack of selective agonist and antagonists for D1 receptors, drugs which did not also interact with D2 receptors. Selective agents for D2 receptors did exist and hence the behavioral roles of D2 receptors were easily ascribed. The work described in this text is primarily stimulated by the development of two selective D1 receptor drugs, the antagonist SCH 23390 and the agonist SKF 38393. The studies described herein clearly show that D1 receptors do indeed have many behavioral functions on the surface, often similar to those responses mediated by D2 receptors.

Neurobiology of Central D1-Dopamine Receptors George Breese, 1986-09-01
Brain Dopaminergic Systems: Imaging with Positron Tomography J.C. Baron, D. Comar, L. Farde, J.L. Martinot, B.M. Mazoyer, 2012-12-06
Imaging of the dopaminergic system in the human brain with the in vivo use of Positron Emission Tomography has emerged in the late 1980s as a tool of major importance in Clinical Neuroscience and Pharmacology. The last few years have witnessed the rapid development of new radiotracers specific to receptors, reuptake sites and enzymes of the dopamine system; the application of these radiotracers has led to major breakthroughs in the pathophysiology and therapy of movement disorders and schizophrenic-like psychoses. This book is the first to collect in a single volume state-of-the-art contributions to the various aspects of this research. Its contents address methodological issues related to the design, labelling, quantitative imaging and compartmental modelisation of radioligands of the postsynaptic presynaptic and enzyme sites of the dopamine system and to their use in clinical research in the fields of Parkinson's disease as well as other movement disorders, psychoses and neuroleptic receptor occupancy. The chapters were written by leading European scientists in the field of Positron Emission Tomography gathered together in Caen, France, November 1990, under the aegis of the EEC Concerted Action on PET Investigations of Cellular Regeneration and Degeneration. This book provides a current and comprehensive overview on PET studies of the brain dopamine system which should aid and interest neurologists, psychiatrists, pharmacologists and medical imaging scientists. J.C. Baron, D. Comar, L. Farde, J.L. Martinot, B. Mazoyer, August 1991, ix.

LIST OF CONTRIBUTORS Dr Yves Agid, Dr L. **Central Cholinergic Synaptic Transmission**

Frotscher, Misgeld, 2013-03-07 Our knowledge of cholinergic synaptic transmission in the peripheral nervous system PNS has expanded enormously since the early 1930s at which time O. Loewi discovered chemical neurotransmission through acetylcholine (ACh) and the pharmacological actions of ACh were described by H. Dale and his colleagues. Description of ACh's actions and receptors in various parts of the brain was followed by a detailed analysis of ACh's synthesis, release, mechanism of removal from the synaptic cleft, modes of agonist-receptor interactions, properties of regulated conductances, and of the pre- and postsynaptic modulation of cholinergic synapses. Our knowledge has been increasingly consolidating, leading us to the recent clarification of the structure of the peripheral nicotinic receptor ion channel and its functional properties. It is appropriate to maintain the claim that the fundamentals of our understanding of synaptic transmission come from studies on cholinergic synapses in the PNS. Contrastingly, views held on the role of cholinergic synapses in the mammalian central nervous system (CNS) are extremely controversial, although it has been clear for some time that ACh is present in the brain. Illustrating this, no unanimous view is held on the role of nicotinic receptors in the CNS. There is one notable exception to this confusion: studies begun by J. C. Eccles and associates in the 1960s and completed by D. R. Curtis and R. W. *Imaging Drug Action in the Brain*. Edythe D. London, 2017-11-22 *Imaging Drug Action in the Brain* is an outstanding reference that provides detailed methodological information and presents a current review of information obtained using various methods to delineate the neuroanatomy of drug action. It presents material covering selective lesioning and intracranial injections in intact animals. It examines various applications of receptor binding techniques and their importance in pharmacology. In vivo metabolic mapping studies to delineate the distributions of action of psychoactive drugs in animals are reviewed in detail. *Imaging Drug Action in the Brain* presents recent advances in extending these types of studies to human investigations using positron emission tomography (PET) scanning and electrophysiological imaging techniques. Applications of immunocytochemical and molecular biology techniques in studies of drug action are explained. *Imaging Drug Action in the Brain* is the only book that encompasses all of these techniques with up-to-date examples of their applications. It is an essential resource for researchers in the fields of neuropharmacology, neuroanatomy, neurophysiology, and nuclear medicine.

Dopamine S.B. Dunnett, M. Bentivoglio, A. Björklund, T. Hökfelt, 2004-12-18 Dopamine is a major neurotransmitter of the brain involved in the control of movement, emotion, and cognition. Disturbance in dopamine function is associated with disorders like Parkinson's disease, schizophrenia, and attention deficit hyperactivity disorder. This volume of the *Handbook of Chemical Neuroanatomy* provides a series of in-depth critical reviews of our present understanding of the most important aspects of dopamine's organisation and disturbed function in the animal and human brain. *Lexicon of Psychiatry, Neurology, and the Neurosciences* Frank J. Ayd, 2000 Now in its thoroughly updated Second Edition, Dr. Ayd's highly acclaimed *Lexicon* is an indispensable desk reference for anyone working in psychiatry, neurology, or the underlying basic neurosciences. It provides succinct, detailed, and easily accessible definitions for the entire range of terms currently used in

these fields including drug categories receptors and the sites and mechanisms affected by pharmacologic treatments This edition reflects the most recent developments in genetics and in psychopharmacology including new drugs and current concepts on drug drug interactions Dr Ayd has added over 1 000 new terms and rewritten nearly half of the entries in the original edition Compatibility BlackBerry R OS 4 1 or Higher iPhone iPod Touch 2 0 or Higher Palm OS 3 5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile TM Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC

Stem and Progenitor Cells in the Central Nervous System R.S.

Nowakowski,2004 This publication focuses on the biology of stem and progenitor cells in the developing and mature central nervous system their response to trauma and potential uses in therapy The authors who are leading experts in the field address topical questions from both basic and clinical neuroscience perspectives such as non invasive imaging of stem cell division the origins of regional diversity in cell types and cell numbers in the stem cell progeny factors that regulate generation of neurons and glial cells from stem cells during normal development the role of genetic and environmental factors in the regulation of stem cell function the role of stem cells in mediating the effects of brain trauma and its recovery and the therapeutic uses of stem cells Offering a unique compilation of articles on the biology and the therapeutic applications of stem cells in the embryonic and mature nervous systems this volume will be of great value to neuroscientists developmental biologists cancer biologists and clinical neurologists

Handbook of the Behavioral Neurobiology of

Serotonin Christian P. Muller,Barry Jacobs,2009-12-30 Serotonin 5 hydroxytryptamine often cited as 5 HT is one of the major excitatory neurotransmitter and the serotonergic system is one of the best studied and understood transmitter systems It is crucially involved in the organization of virtually all behaviours and in the regulation of emotion and mood Alterations in the serotonergic system induced by e g learning or pathological processes underlie behavioural plasticity and changes in mood which can finally results in abnormal behaviour and psychiatric conditions Not surprisingly the serotonergic system and its functional components appear to be targets for a multitude of pharmacological treatments examples of very successful drugs targeting the serotonergic system include Prozac and Zoloft The last decades of research have not only fundamentally expanded our view on serotonin but also revealed in much more detail an astonishing complexity of this system which comprises a multitude of receptors and signalling pathways A detailed view on its role in basal but also complex behaviours emerged and was presented in a number of single review articles Although much is known now the serotonergic system is still a fast growing field of research contributing to our present understanding of the brains function during normal and disturbed behaviour This handbook aims towards a detailed and comprehensive overview over the many facets of behavioural serotonin research As such it will provide the most up to date and thorough reading concerning the serotonergic systems control of behaviour and mood in animals and humans The goal is to create a systematic overview and first hand reference that can be used by students and scholars alike in the fields of genetics anatomy pharmacology

physiology behavioural neuroscience pathology and psychiatry The chapters in this book will be written by leading scientists in this field Most of them have already written excellent reviews in their field of expertise The book is divided in 4 sections After an historical introduction illustrating the growth of ideas about serotonin function in behaviour of the last forty years section A will focus on the functional anatomy of the serotonergic system Section B provides a review of the neurophysiology of the serotonergic system and its single components In section C the involvement of serotonin in behavioural organization will be discussed in great detail while section D deals with the role of serotonin in behavioural pathologies and psychiatric disorders The first handbook broadly discussing the behavioral neurobiology of the serotonergic transmitter system Co edited by one of the pioneers and opinion leaders of the past decades Barry Jacobs Princeton with an international list 10 countries of highly regarded contributors providing over 50 chapters and including the leaders in the field in number of articles and citations K P Lesch T Sharp A Caspi P Blier G K Aghajanian E C Azmitia and others The only integrated and complete resource on the market containing the best information integrating international research providing a global perspective to an international community Of great value not only for researchers and experts but also for students and clinicians as a background reference

Neurobiology of Mental Illness Dennis S. Charney, Eric J. Nestler, 2005-07-21 The new edition of this definitive textbook reflects the continuing reintegration of psychiatry into the mainstream of biomedical science The research tools that are transforming other branches of medicine epidemiology genetics molecular biology imaging and medicinal chemistry are also transforming psychiatry The field stands poised to make dramatic advances in defining disease pathogenesis developing diagnostic methods capable of identifying specific and valid disease entities discovering novel and more effective treatments and ultimately preventing psychiatric disorders The *Neurobiology of Mental Illness* is written by world renowned experts in basic neuroscience and the pathophysiology and treatment of psychiatric disorders It begins with a succinct overview of the basic neurosciences followed by an evaluation of the tools that are available for the study of mental disorders in humans The core of the book is a series of consistently organized sections on the major psychiatric disorders that cover their diagnostic classification molecular genetics functional neuroanatomy neurochemistry and pharmacology neuroimaging and principles of pharmacotherapy Chapters are written in a clear style that is easily accessible to practicing psychiatrists and yet they are detailed enough to interest researchers and academics For this second edition every section has been thoroughly updated and 13 new chapters have been added in areas where significant advances have been made including functional genomics and animal models of illness epidemiology cognitive neuroscience postmortem investigation of human brain drug discovery methods for psychiatric disorders the neurobiology of schizophrenia animal models of anxiety disorders neuroimaging studies of anxiety disorders developmental neurobiology and childhood onset of psychiatric disorders the neurobiology of mental retardation the interface between neurological and psychiatric disorders the neurobiology of circadian rhythms and the neurobiology of sleep disorders Both as a textbook and a

reference work *Neurobiology of Mental Illness* represents a uniquely valuable resource for psychiatrists neuroscientists and their students or trainees

Encyclopedia of Neuroscience, Volume 1 Larry R. Squire, 2009-06-12 The Encyclopedia of the Neuroscience explores all areas of the discipline in its focused entries on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience Each article is written by an expert in that specific domain and peer reviewed by the advisory board before acceptance into the encyclopedia Each article contains a glossary introduction a reference section and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields

Progress in Parkinson Research Franz Hefti, William J. Weiner, 2012-12-06 In the past five

years significant progress has been made in our basic and clinical understanding of Parkinson's disease The discovery that MPTP a relatively simple molecule is able to induce parkinsonism in otherwise healthy adult humans and the recent interest in the possibility of transplantation procedures as a therapeutic modality in the treatment of Parkinson's disease have generated enormous interest in research related to Parkinson's disease In this setting the National Parkinson Foundation decided to organize a research meeting to bring together scientists actively engaged in research relevant to the study of Parkinson's disease to accelerate its progress and to promote an exchange of ideas This meeting took place in January 1988 at Key Biscayne Florida It was decided to publish the proceedings of this meeting to allow rapid documentation of the participants current findings and views regarding this rapidly evolving field The structure with a clinical and neuropathological review of current knowledge regarding Parkinson's disease Since dopaminergic neurons play a major role in the pathophysiology of the disease many of the contributions relate to some aspects of dopaminergic function including localization regulation and pharmacology of dopamine receptors A special effort has been made to provide a summary of the present knowledge of the cellular biology of the dopaminergic neurons

The Psychology of Human Eating Disorders Linda H. Schneider, Steven J. Cooper, Katherine A. Halmi, 1989

Cumulated Index Medicus, 1984

The Basal Ganglia III Giorgio Bernardi, Malcolm B. Carpenter, G. Di Chiara, M. Morelli, P. Stanzione, 2012-12-06 This volume represents the collected papers presented at the Third Triennial Symposium of the International Basal Ganglia Society IBAGS held at Capo Boi Italy June 10-13 1989 About 300 members of the society and participants attended the symposium which was held in a delightful environment conducive to the formal and informal exchange of scientific thought The interdisciplinary nature of the symposium was unique in its coverage of the neurosciences from molecular biology to clinical and behavioural studies The 80 papers collected here reflect the wide spectrum and the depth of studies on virtually all aspects of the basal ganglia Unfortunately this book does not capture the cordial and congenial atmosphere which has characterized this and all prior symposia of the Society Any cooperative endeavour of this kind requires a tremendous effort and dedication usually by a small number of individuals The Society is especially pleased to

acknowledge the support and encouragement of the Italian Ministry of university and Scientific Research and the Italian National Research Council In addition the society received financial support from numerous Foundations and corporations which are listed separately under acknowledgements Finally the Editors are pleased that Plenum Press which has published the two previous symposia has accepted this program for publication It is our hope that vast scientific efforts reflected in these pages will be widely disseminated and further encourage every kind of research related to the basal ganglia

Biomedical Index to PHS-supported Research ,1990 Central Nervous System Diseases Dwaine F.

Emerich,Reginald L. Dean III,Paul R. Sanberg,1999-11-24 Prominent experimentalists critically review the animal models widely used in developing powerful new therapies for central nervous system diseases Coverage includes novel uses of animal models of Alzheimer s Parkinson s and Huntington s diseases and studies of aging Techniques that rely heavily on behavioral analyses as well as models developed from infusions of neurotoxins and from advances in molecular biology are thoroughly explicated as are models developed for more acute neurological conditions including traumatic brain injury and stroke Comprehensive and authoritative Central Nervous System Diseases Innovative Animal Models from Lab to Clinic offers neuroscientists pharmacologists and interested clinicians a unique survey of the most productive animal models of the leading neurological diseases currently employed to develop today s innovative drug therapies *Neurology of Sexual and Bladder Disorders* David B. Vodusek,Francois Boller,2015-05-21 The neurology of sex and bladder disorders requires specialized knowledge and represents a challenge for clinical neurologists focused on the neurological condition Sex and bladder disorders are often related to more general neurological disorders like Parkinson s disease and multiple sclerosis and often the sex and bladder disorders are passed to specialists in urology *Neurology of Sexual and Bladder Disorders* Handbook of Clinical Neurology is a focused yet comprehensive overview that provides complete tutorial reference to the science diagnosis and treatment of sex and bladder disorders from a neurologic perspective Comprehensive coverage of the neurology of sex and bladder disorders Details the latest techniques for the study diagnosis and treatment of sex and bladder dysfunction from a neurological perspective A focused reference for clinical practitioners and neurology research communities Psychopharmacology Bulletin ,1985 Extrasynaptic neurotransmission as a way of modulating multiple neuronal functions Francisco F. De-Miguel,Kjell Fuxe, Extrasynaptic transmission is a unifying term for a wide variety of cellular processes in which outside of synaptic terminals transmitter substances activate extrasynaptic receptors Whereas synaptic transmission immediately refers to a process occurring at nerve terminals in which the arrival of a presynaptic impulse evokes exocytosis followed by a postsynaptic response within a millisecond time scale extrasynaptic transmission has a wide diversity of ultrastructural and therefore mechanistic associated phenomena In comparison to synaptic extrasynaptic exocytosis may last for seconds or even minutes thus expanding the timing of neuronal signaling Extrasynaptic transmission has now been demonstrated in central and peripheral neurons of vertebrates and invertebrates and involves many different

types of transmitter substances than include low molecular weight transmitters acetylcholine GABA glutamate ATP and biogenic amines and peptides substance P vasopressin and others It may occur when transmitters leak out from the synaptic cleft and activate extrasynaptic receptors in neighboring neurons or glial cells or when axonal varicosities dendrites or the somata release transmitters in the absence of postsynaptic counterparts The release mechanisms also vary from one neuron type to another and from one neuronal compartment to another In some cases clear vesicles are apposed to the resting plasma membrane as in presynaptic terminals In other cases transmitters are packed onto dense core vesicles that rest at a distance from the release sites In between there are multiple morphological combinations that point to complementary mechanisms in different compartments of the same neuron and some times even in the same compartment For example serotonergic varicosities may combine clear and dense core vesicles in stereotyped arrays This diversity adds complexity to the nervous system and raises many questions that are waiting for answers Extrasynaptic transmission may be the main source of transmitter molecules causing volume transmission however this still lacks direct demonstration From the physiological point of view one may ask how does the neuronal firing pattern evokes synaptic or extrasynaptic transmitter release or what are the physiological effects of these modes of transmission From the behavioral point of view it becomes interesting to explore how circuits and therefore behaviors are modulated Some neurological disfunctions may also be related to deficiencies in extrasynaptic transmission however again direct studies are still lacking Developmental and evolutionary biologists may also find the topic inspiring Extrasynaptic transmission not only expands our view about how the nervous system works but also requires a change in the way we plan our research New technological and computational tools are now being applied to analyze intracellular and extracellular transmitter mobilizations or long term changes of neuronal circuits New definitions and mechanisms may become visible In the meanwhile this seems to be a good moment for a first common effort to analyze and discuss extrasynaptic transmission in different systems and from different perspectives

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