

# **Receptors and ligands in neurological disorders**

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Amar K. Sen & Tyrone Lee

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# Receptors And Ligands In Neurological Disorders

**Dominique Massotte**



## **Receptors And Ligands In Neurological Disorders:**

Receptors and Ligands in Neurological Disorders Amar K. Sen, Tyrone Lee, 1988-06-02 This book summarises current studies which involve receptors and ligands in neurological disorders The advance in the study of receptors in general enables investigators to explore the mechanism of action of psychotropic drugs and to minimise their side effects **Drug**

## **Delivery Strategies in Neurological Disorders: Challenges and Opportunities** Awanish Mishra, Hitesh

Kulhari, 2024-02-28 This book comprehensively reviews the recent progress in their pathogenesis and management approaches for neurological disorders It focuses on understanding the molecular mechanism pathology novel nanotechnology based approaches against stroke Alzheimer s disease Parkinson disease Huntington s disease Multiple sclerosis and Epilepsy The book provides the basic understanding about the development and progression of these diseases and recent pharmacotherapeutic approaches for their management It also discusses challenges in drug development for neurological disorders including preclinical models of disorders the need for drugs to cross the blood brain barrier and limited understanding of relevant pathophysiology The book also focuses on different conventional and novel strategies for drug delivery in neurological disorders Towards the end the book reviews the applications of nanotechnology for the diagnosis of neurological disorders One of the chapters is focused on the role of herbal actives in the treatment of neurological disorders Finally a chapter is included on nanotechnology based approaches for diagnosis of neurological disorders This book is a useful resource for students and researchers of pharmaceutical sciences life sciences material sciences and nanosciences

**Metabotropic Glutamate Receptors in Psychiatric and Neurological Disorders** , 2023-03-01 Metabotropic Glutamate Receptors in Psychiatric and Neurological Disorders Volume 168 in the International Review of Neurobiology series highlights advances in the field with this new volume presenting interesting chapters on topics such as mGlu receptors in Parkinson s disease Metabotropic glutamate receptors in estradiol mediated motivated behaviors in females mGlu regulation of sleep Implications for sleep disruptions in psychiatric disorders Mechanisms of mGlu receptor trafficking alterations by methamphetamine Group I mGlu and cocaine seeking The role of mGlu receptors in fear and anxiety Regulation of Alcohol Consumption Reward Dependence and Perception by Metabotropic Glutamate Receptor Signaling and mGlu5 as a biomarker for psychiatric disorders Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the International Review of Neurobiology series Updated release includes the latest information on metabotropic glutamate receptors in psychiatric and neurological disorders

**Structure-Based Drug Design for Diagnosis and Treatment of Neurological Diseases** Rona R. Ramsay, Giuseppe Di Giovanni, 2017-03-24 European Cooperation in Science and Technology COST supports the collaboration of nationally funded science and technology research through the creation of networks COST is the longest running European framework enhancing cooperation among researchers engineers and scholars across Europe The COST Action CM1103 Structure based

drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain is a good example of the advances possible through interdisciplinary collaboration on difficult problems COST Action CM1103 brought together 28 research groups from 18 countries to collaborate for four years on multi target drug design for complex neuropathologies The interdisciplinary expertise of the members spans the range from computational enzymology to human studies providing outstanding opportunities for the interdisciplinary development of trainees and is reflected in the articles in this e book This Research Topic covers progress in multi target drug design for the complex neuropathologies of the monoamine system that are apparent for example in Alzheimer s disease After a mini review to introduce the topic of multi target drug design the other articles review the Research topic from their own perspective two from computational approaches three from medicinal chemistry two from molecular pharmacology and two from studies in whole brain This multi faceted approach describes new compounds new methodology and advances in the basic science of understanding the brain This Ebook is based upon work from COST Action CM1103 Structure based drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain supported by COST European Cooperation in Science and Technology COST European Cooperation in Science and Technology is a pan European intergovernmental framework Its mission is to enable break through scientific and technological developments leading to new concepts and products and thereby contribute to strengthening Europe s research and innovation capacities It allows researchers engineers and scholars to jointly develop their own ideas and take new initiatives across all fields of science and technology while promoting multi and interdisciplinary approaches COST aims at fostering a better integration of less research intensive countries to the knowledge hubs of the European Research Area The COST Association an International not for profit Association under Belgian Law integrates all management governing and administrative functions necessary for the operation of the framework The COST Association has currently 36 Member Countries [www.cost.eu](http://www.cost.eu)

Ligands for Targeted Drug Delivery Vikas Pandey,Rajeev Sharma,Tanweer Haider,Dinesh Kumar Mishra,2025-05-23 Ligands for Targeted Drug Delivery Basic Fundamentals and Applications is a comprehensive reference focused on the many ways drug carriers can be functionalized to target specific organs tissues cells and sub cellular compartments Chapters cover the basic concepts of targeted drug delivery describing multiple levels of targets and challenges along with approaches for target specific drug delivery and a thorough overview of the challenges in design and application of ligands Following sections discuss nanoparticles and the main ligand classes with their respective applications The final chapters discuss future prospects of the technology and clinical aspects of ligand modified drug delivery systems This is a key reference to drug delivery researchers dealing with the application of ligands to overcome challenges in delivering their active principles to the target structure Biomedical engineers materials scientists and chemists can also benefit from the through description of ligand classes and their potential

to improve drug delivery efficiency Provides foundational information on targeted drug delivery at organ tissue cellular and sub cellular levels Compares active and passive targeting and their applications Summarizes the wider classes of ligands used for drug delivery Presents a strategic thinking framework for pairing nanocarriers with appropriate ligands for enhanced therapeutic efficacy

**Sigma Receptors: Their Role in Disease and as Therapeutic Targets** Sylvia B. Smith, Tsung-Ping Su, 2017-03-16 Originally confused with opioid receptors and then orphan receptors with no biological function Sigma Receptors are now recognized as relevant to many degenerative diseases with remarkable potential as therapeutic targets In this text new information about the structure of sigma 1 receptor its binding sites are provided as well as its expression in many cell types Its putative role in degenerative neuronal diseases including amyotrophic lateral sclerosis Alzheimer s disease Parkinson s disease Huntington s disease pain drug addiction and locomotor activity Their roles in possible treatments for blinding retinal diseases emphasize the tremendous far reaching potential for ligands for these receptors Exciting breakthroughs in this dynamic field in the last decade are reported herein which will guide future investigators in determining the full potential of this unique yet abundantly expressed protein *Frontiers in Clinical Drug Research - CNS and Neurological Disorders* Atta-ur-Rahman, 2013-10-11 *Frontiers in Clinical Drug Research CNS and Neurological Disorders* is an ebook series that brings updated reviews to readers interested in advances in the development of pharmaceutical agents for the treatment of central nervous system CNS and other nerve disorders The scope of the ebook series covers a range of topics including the medicinal chemistry pharmacology molecular biology and biochemistry of contemporary molecular targets involved in neurological and CNS disorders Reviews presented in the series are mainly focused on clinical and therapeutic aspects of novel drugs intended for these targets *Frontiers in Clinical Drug Research CNS and Neurological Disorders* is a valuable resource for pharmaceutical scientists and postgraduate students seeking updated and critical information for developing clinical trials and devising research plans in the field of neurology The second volume of this series features 8 chapters that cover a variety of topics including treatment of multiple sclerosis and schizophrenia neurochemistry of tremors relationship between GABA and Alzheimer s disease therapy relationship between neurological diseases and cancer research on angiogenesis related blindness

**Kinins: Advances in Research and Application: 2011 Edition** , 2012-01-09 *Kinins Advances in Research and Application 2011 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Kinins The editors have built *Kinins Advances in Research and Application 2011 Edition* on the vast information databases of ScholarlyNews You can expect the information about Kinins in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Kinins Advances in Research and Application 2011 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You

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**Trace Amines and Neurological Disorders** Tahira Farooqui, Akhlaq A. Farooqui, 2016-07-12 Trace Amines and Neurological Disorders Potential Mechanisms and Risk Factors explores trace amines which under normal conditions are present in the mammalian brain and peripheral nervous tissues at very low nanomolar concentrations However in a diverse array of human pathologies ranging from substance abuse depression attention deficit hyperactivity disorder eating disorders schizophrenia and other neurological and neuropsychiatric diseases the levels of trace amines are unusually high with an imbalance in their functions Furthermore the rapid turnover of trace amines is evidenced by their dramatic increases following treatment with monoamine oxidase inhibitors MAOI or deletion of the MAO genes This suggests that the concentration of trace amines may be considerably higher at neuronal synapses than predicted by steady state measures implicating some pathophysiological role Therefore understanding molecular mechanisms and developing selective agonists and antagonists for trace amine associated receptors TAARs has become a good approach for treating these diseases Although the effects of trace amines at low physiological concentrations in mammalian species have been difficult to demonstrate they may serve to maintain the neuronal activity of other monoamine neurotransmitters by possessing postsynaptic modulatory effects particularly dopamine and serotonin within defined physiological limits Such an effect of trace amines makes them ideal candidates for the development of novel therapeutics for a wide range of human disorders This book presents up to date cutting edge and comprehensive information on the link between trace amines and neurological disorders Focuses on recent findings on trace amines providing insights into the functional significance molecular mechanisms and biological relevance of TAARS in neurological disorders Edited work with chapters authored by leaders in the field from around the globe the broadest most expert coverage available Provides cutting edge research on trace amines mediated signaling in vertebrate model systems

**Unveiling Receptor Dynamics: A Comprehensive Guide to Receptor-Ligand Interactions and Signaling Pathways** Pasquale De Marco, 2025-08-14 Unveiling Receptor Dynamics A Comprehensive Guide to Receptor Ligand Interactions and Signaling Pathways In the intricate tapestry of cellular life receptors stand as gatekeepers transducers and modulators of communication orchestrating a symphony of cellular responses to a vast array of stimuli From hormones and neurotransmitters to growth factors and pathogens receptors serve as the primary interface between cells and their environment Through their interactions with specific ligands receptors initiate a cascade of intracellular events that ultimately govern a wide spectrum of physiological processes including cell growth differentiation metabolism and immunity This comprehensive book delves into the fascinating world of receptors providing a thorough understanding of their intricate mechanisms of action and their pivotal roles in cellular signaling and physiology With a focus on quantitative approaches and mathematical modeling it offers a unique perspective on receptor dynamics unraveling the complex interplay between ligand binding signal initiation receptor trafficking and

regulation Divided into ten chapters the book covers a broad range of topics encompassing the fundamental principles of receptor architecture and diversity the thermodynamics and kinetics of receptor ligand interactions and the mechanisms of receptor trafficking and signaling It explores the intricate interplay between receptors and cellular responses examining how receptors activate downstream signaling pathways to regulate gene expression protein synthesis and cellular metabolism The book also delves into the role of receptors in disease investigating how receptor mutations and dysregulation contribute to the pathogenesis of a wide range of disorders including cancer inflammatory diseases and neurodegenerative conditions It highlights the exciting potential of receptor based therapeutics showcasing innovative drugs that target receptors to treat various diseases Throughout the book mathematical modeling is employed as a powerful tool to gain insights into receptor dynamics Mathematical models simulate and analyze receptor ligand interactions receptor trafficking and signaling pathways providing valuable insights into the complex behavior of receptors and helping identify key factors that govern their function With its comprehensive coverage quantitative approach and engaging writing style *Unveiling Receptor Dynamics* is an essential resource for researchers students and professionals in the fields of biochemistry cell biology pharmacology and biophysics It offers a deeper understanding of receptor biology and its implications for human health and disease If you like this book write a review

*Gene Therapy in Neurological Disorders* Mingjie Li, B. Joy Snider, 2018-05-25 Gene therapy has tremendous potential for the treatment of neurological disorders There has been substantial progress in the development of gene therapy strategies for neurological disorders over the last two decades *Gene Therapy in Neurological Disorders* thoroughly reviews currently available gene therapy tools and presents examples of their application in a variety of neurological diseases The book begins with general reviews of gene therapy strategies with a focus on neurological disorders The remainder of the chapters present approaches to specific neurological disorders Each chapter gives an in depth introduction to the relevant field before diving into the specific tool or application The book aims to help investigators students and research staff better understand the principles of gene therapy and its application in the nervous system Provides background information and experimental details of gene therapy tools applied for neuroscience research and neurological disorders Covers a broad range of gene delivery and regulation tools therapeutic agents and target cells including emerging new technologies such as CRISPR Cas9 genome editing Discusses applications of gene therapy tools to neurological disorders including neurodegeneration muscular dystrophy trauma and chronic pain and neoplastic diseases

**Translating Mechanisms of Orofacial Neurological Disorder**, 2011-08-02 In this volume members of the International Translational Research Network on Orofacial Neurological Disorders and invited experts provide authoritative overviews of new aspects of motor function and sensation relating to neurological disorders in orofacial regions Orofacial movements constitute fundamental motor patterns with essential roles in consummatory behavior self care defensive and attack behaviors vocalization and in higher mammals verbal as well as non verbal communication Clinically dysfunction in

orofacial movement is evident in numerous dental cranio maxillo facial and neuropsychiatric disorders including dysphagia Huntington s disease Parkinson s disease and schizophrenia Leading authors review state of the art in their field of investigation and provide their views and perspectives for future research Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered All chapters include comprehensive background information and are written in a clear form that is also accessible to the non specialist *Novel Therapeutic Target and Drug Discovery for Neurological Diseases* Rui Liu,Liu Qing-Shan,Yong Cheng,George Barreto,Asma Perveen,2022-11-14

Monitoring endogenous GPCRs: lessons for drug design Dominique Massotte,2015-10-07 G protein coupled receptors GPCRs are integral membrane proteins forming the fourth largest superfamily in the human genome Many of these receptors play key physiological roles and several pathologies have been associated with receptor functional abnormalities GPCRs therefore represent important goals for drug design in pharmaceutical companies since they constitute the target of about one third of the drugs currently on the market However endogenous GPCRs are most often difficult to study because of a lack of tools to target them specifically and single out their response to physiological or drug elicited stimulations Hence studies mostly focused on recombinant receptors expressed in a variety of cellular models that do not always closely reflect the receptor natural environment and often deal with levels of expression exceeding by far physiological ranges Recent technological developments combining for example genetically modified animals and advanced imaging approaches have improved our ability to visualize endogenous GPCRs To date trailing receptor activation subsequent intracellular redistribution changes in signaling cascade up to integrated response to a drug elicited stimulation is at hand though the impact of a physiological challenge on receptor dynamics remains a major issue Data however suggest that the receptor may embrace a different fate depending on the type of stimulation in particular if sustained or repeated This suggests that current drugs may only partially mimic the genuine response of the receptor and may explain at least in part their secondary effects Commonalities and specificities between physiological and drug induced activation can thus represent valuable guidelines for the design of future drugs Cannabinoids and Their Receptors ,2017-07-24 Cannabinoids and Their Receptors Volume 593 the latest release in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field This updated volume includes comprehensive chapters on a variety of topics including Real time cAMP signaling in response to CB1 activation CB1 signaling in mitochondria Lipidomics of cannabinoid systems Studying endocannabinoid transport Metabolic profiling of CB1 neutral antagonists Approaches to assess biased signaling at the CB1 receptor and the Development of CB1 allosteric modulators Continues the legacy of this premier serial with a new and updated release Covers research cannabinoids and their receptors **Endocannabinoid Regulation of Monoamines in Psychiatric and Neurological Disorders** Elisabeth J. Van Bockstaele,2013-07-07 The past decade has seen tremendous growth in the study of cannabinoid receptor signaling in brain The impact and consequences of cannabinoid modulation of



monoaminergic dopamine norepinephrine and serotonin circuits is becoming more clear Scientists have shown significant interaction between these two systems in a variety of psychiatric and neurological disorders such as affective disorders multiple sclerosis and pain or pain disorders The overarching goal of Endocannabinoid Regulation of Monoamines in Psychiatric and Neurological Disorders is to provide current information on advances in the field of endocannabinoid signaling and potential therapeutic applications with a particular emphasis on monoaminergic circuits

*Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co-Morbidity Factors Part B*, 2023-10-16

Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co morbidity Factors Part B Volume 172 in the International Review of Neurobiology series includes chapters on Spinal cord injury induced exacerbation of Alzheimer s disease pathophysiology in the cord is reduced by topical application of nanowired cerebrolysin and antibodies to tumor necrosis factor alpha Nanodelivery of histamine H3 receptor inverse agonist BF 2549 with clobenpropit a H3 receptor antagonist and H4 receptor agonist induced neuroprotection in spinal cord injury is potentiated by antioxidant compound H 290 51 and Neuromodulation and quality of life for patient with spasticity after spinal cord injury and more Other sections cover Efficacy of invasive and non invasive methods for the treatment of Parkinson s disease nanodelivery and enriched environment Co administration of DL 3 n butylphthalide and neprilysin is neuroprotective in Alzheimer disease associated with brain injury Nicotine Neurotoxicity Exacerbation following Engineered Ag and Cu 50 60 nm nanoparticles intoxication and Neuroprotection with nanowired delivery of antioxidant compound H 290 51 together with serotonin 5 HT3 receptor antagonist ondansetron Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in International Review on Neurobiology series Updated release includes the latest information on Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co Morbidity Factors

*Neurodegenerative Diseases: From Gut-Brain Axis to Brain Microbiome* George Tetz, Robert Friedland, 2023-06-08 While there are growing line of evidence for the role of the gut microbiome in different neurodegenerative diseases the role and even the existence of the brain microbiome is only starting to be uncovered Indeed the brain was long considered to be a sterile environment and only recent studies have shown the presence of bacteria and fungi in the human central nervous system and even inhabiting brain cells The so called brain microbiome is appealing and immediately drew attention since it is highly possible that microorganisms could have profound direct effects on a variety of processes in the brain with the non limiting examples of neurodegenerative and neurodevelopmental diseases triggering and progression However the brain microbiome remains poorly understood and even despite recent technological advances is has only began to be explored

*Emerging Drugs and Targets for Parkinson's Disease* Ana Martinez, Carmen Gil, 2013 This exemplary new book reviews some of the most outstanding examples of new drugs currently in pharmaceutical development or new targets under the validation process to try to reach the Parkinson s drug market in the next few years as potential disease modifying drugs

**Treatments, Nutraceuticals, Supplements, and Herbal Medicine in Neurological Disorders** Colin R.

Martin, Vinood B. Patel, Victor R Preedy, 2023-06-07 Treatments Nutraceuticals Supplements and Herbal Medicine in Neurological Disorders offers readers a comprehensive reference on their potential for treatment in a wide variety of neurological diseases Spanning various types of these compounds this broad coverage allows readers to learn about the use of nutraceuticals and botanicals alone or in combination with other dietary regimes and or vitamins and minerals It covers diseases including Alzheimer s Parkinson s ALS and MS and severe neurological conditions including brain injury stroke headache and migraine This volume provides a platform for research on nutraceuticals and botanical agents and on future investigations of these compounds There are over 600 neurological disorders affecting both the central and peripheral nervous systems some of which have been treated by nutraceuticals and herbal medicine hence this is a timely resource on the topics covered Summarizes nutraceutical and herbal medicine research for a variety of neurological conditions Contains chapter abstracts key facts a dictionary and a summary Covers nutraceutical and botanical use in Alzheimer s Parkinson s ALS MS and more Includes conditions like migraine headache stroke and brain injury

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