

Ying Xia *Editor*

Neural Functions of the Delta- Opioid Receptor

 Springer

Neural Functions Delta Opioid Receptor Ying

**Ying Xia,Xiaoding Cao,Gen-Cheng
Wu,Jieshi Cheng**



Neural Functions Delta Opioid Receptor Ying:

Neural Functions of the Delta-Opioid Receptor Ying Xia, 2015-12-29 This book is the first to summarize the progress of research on neural functions of the the delta opioid receptor DOR to date This receptor a member of the opioid receptor family was traditionally thought to be primarily involved in pain modulation Recent new findings have shown its unique role in neuroprotection and many other functions Many scientists from a number of independent laboratories have now confirmed that DOR can provide neuroprotection against hypoxic ischemic injuries They have also found that it plays a role in a variety of physiological and pathophysiological events such as hypoxic encephalopathy epilepsy acupuncture Parkinson s disease etc by regulating ionic homeostasis glutamate transportation and signaling and balancing intracellular survival death signals The book will provide a comprehensive overview of the current state of DOR research and provide a blueprint for future directions

A Perspective on Opioid Addiction Jay Schulkin, Bryce Huebner, 2025-09-30 Today the opioid crisis often feels intractable This book offers a wider perspective on its underlying causes examining the biological psychological and social aspects of addiction and the interactions among them Jay Schulkin a behavioral neuroscientist and Bryce Huebner a philosopher explore the complexities of opioid addiction through a distinctive combination of neuroscientific knowledge and pragmatist thought They detail the biological and neurological processes that shape and sustain addiction showing why opiates power to ease pain makes us vulnerable to abusing them The book discusses the relationship between addiction and depression the dilemmas of pain management and the meaning of recovery Schulkin and Huebner underscore the stigma that marginalizes people who struggle with addiction and the social factors that shape access to treatment and care calling for a focus on harm reduction They consider questions of individual and social accountability reflecting on choice autonomy and freedom Interdisciplinary and wide ranging this book brings deep learning empathy and insight to understanding the experience of addiction

Advanced Acupuncture Research: From Bench to Bedside Ying Xia, 2022-07-26 Written by over seventy scientists and clinicians worldwide from China USA Germany Canada Japan and other countries this monograph with nearly 450 figures and tables covers a wide range of advanced progress in acupuncture research from experimental research to clinical applications In addition to exploring the histopathological basis for acupuncture and mathematical simulation of acupoint response to stimulation initiation and transduction of acupuncture signals and cellular mechanisms during acupuncture effects as well as chemical and physical characteristics of moxibustion on acupoints are broadly discussed The topics also include novel data on acupuncture effect with advanced imaging techniques a unique understanding of meridian viscera correlation specific interactions between meridians and neurosensory organs within the system of homeostatic regulation and the acupuncture induced influences on autonomic function Several chapters introduce specific approaches with dry needling silver needling and stainless needling for certain diseases such as myofascitis supportive care for breast cancer and chemotherapy induced peripheral neuropathy as well as perioperative care of surgical

patients Moreover this book discusses recent research on acupuncture therapy and potential mechanisms for a number of severe and refractory neurological disorders including hyperactivity of hypothalamic pituitary adrenal axis orofacial pain chronic pain itch multiple sclerosis autism spectrum disorders cerebral palsy depressive disorders Alzheimer s disease and ischemic brain injury The vast amount of information offered in this book provides a comprehensive perspective on advanced acupuncture research to not only acupuncturists but also to neuroscientists neurologists and other clinicians For medical students and graduate and undergraduate students majoring in biology physiology and neuroscience this book offers an advanced course in learning about the mechanism driven advances in alternative and complementary medicine

Translational Acupuncture Research Ying Xia,2019-05-28 Written by many scientists and clinicians from China USA Canada and other countries this monograph discusses translational research on acupuncture Besides general topics on acupuncture practice e g different styles and techniques of acupuncture topics include some refractory diseases such as chronic fatigue syndrome Parkinson s disease cardiovascular dysfunction chronic pain post concussion syndrome and post traumatic stress disorder and cancer related symptoms The factors influencing acupuncture research are comprehensively addressed in the final chapter This unique book provides a translational perspective on modern acupuncture for not only acupuncturists but also neuroscientists neurologists and other clinicians For medical students and undergraduate and graduate students majoring in biology this book is an advanced course for learning the progress in alternative and complementary Medicine Cumulated Index Medicus ,1999 Neuromodulatory Control of Spinal Function in Health and Disease Brian R. Noga,Shawn Hochman,Hans Hultborn,2020-02-20 *Endogenous opioids in systems neuroscience* Hugo Tejada,Gregory Corder,Nicolas Massaly,Catherine Cahill,2023-07-03 *Handbook of Neurochemistry and Molecular Neurobiology* Ramon Lim,Abel Lajtha,2006-09-18 The Handbook is intended to be a service to the neuroscience community to help in finding available and useful information to point out gaps in our knowledge and to encourage continued studies It represents the valuable contributions of the many authors of the chapters and the guidance of the editors and most important it represents support for research in this discipline Based on the rapid advances in the years since the second edition Publisher s website **Hormones, Brain and Behavior** ,2016-11-09 Hormones Brain and Behavior Third Edition offers a state of the art overview of hormonally mediated behaviors including an extensive discussion of the effects of hormones on insects fish amphibians birds rodents and humans Entries have been carefully designed to provide a valuable source of information for students and researchers in neuroendocrinology and those working in related areas such as biology psychology psychiatry and neurology This third edition has been substantially restructured to include both foundational information and recent developments in the field Continuing the emphasis on interdisciplinary research and practical applications the book includes articles aligned in five main subject sections with new chapters included on genetic and genomic techniques and clinical investigations This reference provides unique treatment of all major vertebrate and

invertebrate model systems with excellent opportunities for relating behavior to molecular genetics The topics cover an unusual breadth from molecules to ecophysiology ranging from basic science to clinical research making this reference of interest to a broad range of scientists in a variety of fields Comprehensive and updated coverage of a rapidly growing field of research Unique treatment of all major vertebrate and invertebrate model systems with excellent opportunities for relating behavior to molecular genetics Covers an unusual breadth of topics and subject fields ranging from molecules to ecophysiology and from basic science to clinical research Ideal resource for interdisciplinary learning and understanding in the fields of hormones and behavior

Acupuncture Therapy for Neurological Diseases Ying Xia,Xiaoding

Cao,Gen-Cheng Wu,Jieshi Cheng,2010-09-08 Acupuncture therapy has been practiced in China and other Asian countries for more than two thousand years Modern clinical research has confirmed the impressive therapeutic effect of acupuncture on numerous human ailments such as controlling pain nausea and vomiting However the biological mechanisms of acupuncture are still under debate In Traditional Chinese Medicine TCM the mechanism of acupuncture therapy is explained by a meridian model According to this model acupuncture is believed to treat the diseased organs by modulating two conditions known as Yin and Yang which represent all the opposite principles that people find in the universe both inside and outside the human body Yin and Yang complement each other and are subjected to changes between each other The balance of Yin and Yang is thought to be maintained by Qi an energy substance flowing constantly through the meridian a network connecting all the organs of the body The illness according to this theory is the temporary dominance of one principle over the other owing to the blockade of the Qi from flowing through the meridian under certain circumstance The axiom of No stagnation No pain in TCM summarizes this concept Thus the goal of acupuncture treatment is to restore the balance of Yin and Yang conditions in the diseased organ s This theory has been considered to be useful to guide this ancient therapy such as carrying out diagnosis deciding on the principle and selecting the acupoints

Proceedings of the NIDA-sponsored Satellite Sessions in Association with the XIV International AIDS Conference, Barcelona, Spain, July 7-11, 2002 National Institute on Drug Abuse,2003

Novel Molecular Targets for the Treatment of Pain Tally Largent-Milnes,John Michael Streicher,Meritzell Canals,2021-02-02 Topic Editor John Streicher is a co founder and equity partner of Teleport Pharmaceuticals LLC All other Topic Editors declare no competing interests with regards to the Research Topic subject

Bioactive Peptides John Onuh,M. Selvamuthukumaran,Yashwant V Pathak,2021-06-14 Bioactive peptides have been receiving attention recently due to their applications as health promoting agents Derived from food proteins and other natural sources they exhibit various beneficial effects such as preventing diseases or modulating physiological systems once absorbed As the market for nutraceuticals and functional foods continues to expand consumer interest has also grown and there are many common foods that have shown an abundance of bioactive peptides including dairy products cereal legumes meat and numerous other sources In this newest addition to the series Nutraceuticals Basic Research and Clinical

Applications Bioactive Peptides Production Bioavailability Health Potential and Regulatory Issues provides a comprehensive review of the current state of knowledge in the field of food protein hydrolysates and bioactive peptides their food sources bioavailability production applications functionalities health potentials and regulatory issues governing their use Features Discusses different methodologies employed for scaling up bioactive peptides commercially Provides information on optimizing the production process Explains various bioactive properties exerted by different types of bioactive peptides Explores the application of metabolomics to the study of bioactive peptides With over 20 chapters written by established subject matter experts in their field this book provides timely information and discusses the latest developments of bioactive peptides It will be useful for researchers academics and industry experts and can serve as an excellent resource for anyone interested in enhancing their knowledge in the field of bioactive peptides **The Opiate Receptors** Gavril W.

Pasternak,2010-11-30 This new edition covers the latest knowledge on opiate receptors and related receptor subtypes It discusses many topics pertaining to the unique integrated approach of correlating the biochemical physiological and pharmacological aspects of opiate reaction Transgenic Models in Pharmacology Lutz Hein,2012-12-06 Up to date information on animal models generated by transgenic or gene targeting techniques Naturally the focus is on the mouse system Each chapter has been written by leading experts in the field and gives an overview on existing animal models This is facilitated by tables which list the most important genetically engineered animal models and their phenotypes This book aims at illustrating the impact of transgenic animal models in the field of Experimental Pharmacology and Toxicology which includes their role in the understanding of basic cellular mechanisms the evaluation of potential drug targets or the testing for drug effects The Neuroendocrine Immune Network S. Freier,2018-01-18 This informative publication updates the study of interaction of the nervous and endocrine systems with the immune system in the body It describes the anatomical basis of these interactions reviewing the innervation of lymphoid tissue and mast cells The book discusses the effect of the endocrine system on immune function including the relation of sex to the immune response Emphasis is given to opioids substance P neurotensin vasoactive intestinal peptide somatostatin and cholecystokinin Also addressed is the immunoregulatory effect of leukotrienes and platelet activating factors Scrutinized within are stress as an aspect of neuro immune interactions and the central role of the hypothalamus in this context The book reviews the eye and the gastrointestinal tract with respect to the coordination of the nervous endocrine and immune systems in serving these organs This work is of particular value to those in immunology endocrinology gastroenterology and developmental biology

Molecular Biology of Drug Addiction Rafael Maldonado,2002-09-12 A comprehensive multidisciplinary review of the most relevant molecular genetic and behavioral approaches used to investigate the neurobiological basis of drug addiction The authors explore the latest findings on opioid psychostimulant cannabinoid alcohol and nicotine addiction provide fresh insights into the genetic basis of drug addiction and the new therapeutic perspectives these have opened They describe the

technology available to generate conditional knockout mice and show how these mice can reveal the molecular basis of opioid psychostimulant and cannabinoid addiction They also review the different behavioral models available to evaluate the rewarding effects of drugs and analyze the genes involved in alcohol dependence

The Opioid System as the Interface between the Brain's Cognitive and Motivational Systems, 2018-10-09 The Opioid System as the Brain's Interface between Cognition and Motivation Volume 239 focuses on the opioid system as the interface between the brain's cognitive and motivational systems As the opioid system is widely distributed through the brain particularly in areas implicated in cognition hippocampus prefrontal cortex claustrum thalamus and motivation hypothalamus amygdala pontine nuclei periaqueductal gray and medulla this book provides chapters that address ongoing research on topics such as the Brain's cognitive system the Brain's motivational system Antidepressant prescription patterns Antidepressant-like effects of opioid receptor modulators the Behavioral effects of antidepressant and anxiolytic drugs and more Contains contributions from both academia and industry to maximize the cross fertilization of differing perspectives on opioid system function in health and disease Studies the opioid system as the interface between the brain's cognitive and motivational systems

Aging Mechanisms Nozomu Mori, Inhee Mook-Jung, 2015-11-26 This book brings together the most up to date information on recent research results of leading laboratories on aging science in East Asia particularly in Japan Korea and Hong Kong Starting with a comprehensive overview of various hypotheses on biological mechanisms of aging by Dr Sataro Goto each chapter covers broad aspects of the most recent findings in aging related topics centenarian studies and genome analysis of progeria metabolic biochemistry and neurobiology longevity controls in yeast and nematodes oxidative stress and calorie restriction and neurodegeneration mechanisms in Alzheimer's and Huntington's diseases with further potential therapeutic approaches to these age related neurodegenerative diseases Also included in part is a summary and the outcomes of a scientific discussion forum called the Asian Aging Core for Longevity AACL that has been held annually alternating between Japan and Korea during the last decade This book can serve as a useful resource for finding appropriate collaborators in the areas it covers The target readership is made up of graduate students and researchers at universities medical and or life science schools and biomedical and pharmaceutical institutes Why does aging exist How do we age How is each organism's lifespan determined These are fundamental questions in the field We may be still far from achieving a complete view of aging mechanisms but this book *Aging Mechanisms* offers an excellent opportunity to become familiar with the most updated progress in the biomedical research of aging in Japan and Korea the two leading nations for human longevity

Immune Response to Cerebral Ischemia: Exploring Mechanisms and Potential Treatment Targets Xiaoxing Xiong, Heng Zhao, Creed Stary, Lijuan Gu, 2022-02-10

The book delves into Neural Functions Delta Opioid Receptor Ying. Neural Functions Delta Opioid Receptor Ying is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Neural Functions Delta Opioid Receptor Ying, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Neural Functions Delta Opioid Receptor Ying
 - Chapter 2: Essential Elements of Neural Functions Delta Opioid Receptor Ying
 - Chapter 3: Neural Functions Delta Opioid Receptor Ying in Everyday Life
 - Chapter 4: Neural Functions Delta Opioid Receptor Ying in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Neural Functions Delta Opioid Receptor Ying. This chapter will explore what Neural Functions Delta Opioid Receptor Ying is, why Neural Functions Delta Opioid Receptor Ying is vital, and how to effectively learn about Neural Functions Delta Opioid Receptor Ying.
 3. In chapter 2, the author will delve into the foundational concepts of Neural Functions Delta Opioid Receptor Ying. This chapter will elucidate the essential principles that must be understood to grasp Neural Functions Delta Opioid Receptor Ying in its entirety.
 4. In chapter 3, the author will examine the practical applications of Neural Functions Delta Opioid Receptor Ying in daily life. This chapter will showcase real-world examples of how Neural Functions Delta Opioid Receptor Ying can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Neural Functions Delta Opioid Receptor Ying in specific contexts. This chapter will explore how Neural Functions Delta Opioid Receptor Ying is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Neural Functions Delta Opioid Receptor Ying. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Neural Functions Delta Opioid Receptor Ying.

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