

GONADOTROPIN-RELEASING HORMONE: MOLECULES AND RECEPTORS

VOLUME 141

ISHWAR S. PARHAR

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Gonadotropin Releasing Hormone Molecules And Receptors Volume 141 Progress In Brain Research

Hari Shanker Sharma

Gonadotropin Releasing Hormone Molecules And Receptors Volume 141 Progress In Brain Research:

Gonadotropin-Releasing Hormone: Molecules and Receptors I.S. Parhar, 2002-11-22 This volume summarizes the evolution and physiology of GnRH molecules and receptors and provides insight as to how social behavior influences cellular and molecular events in the brain from a comparative perspective The chapters in this volume are divided into three major sections Development and Cell Migration GnRH Receptors Physiology and Regulation The review papers arose primarily from presentations made at the Second International Symposium on the Comparative Biology of GnRH held in Penang Malaysia June 2 4 2001 a satellite symposium in conjunction with the XIV International Congress of Comparative Endocrinology Sorrento Italy In addition leading neuroscientists doing cutting edge research in the field of GnRH were invited as authors to make this volume a valuable reference NGF and Related Molecules in Health and Disease L. Aloe, L. Calza, 2003-12-10 The book highlights different aspects of current understanding of neurotrophin receptor signal transduction pathways including the signaling endosome hypothesis Findings on the synaptotrophic potential of NGF and related neurotrophins neurotrophin involvement in neuronal stem cell biology biological activity of the NGF precursor proNGF and nociception and antinociception associated activity of NGF and or BDNF are also presented and discussed Several chapters deal with the involvement of various neurotrophins in the control of different nonneuronal processes such as immune inflammatory and allergic reactions tissue repair and wound healing The findings showed that neurotrophins play important roles in the pathobiology of a surprising variety of seemingly unrelated non neurological diseases including bronchial asthma rheumatoid arthritis systemic sclerosis hair growth disorders psoriasis corneal and skin ulcers atherosclerosis metabolic syndrome crush syndrome and Beh et s disease There are also chapters on the involvement of NGF and related molecules in neurological diseases including Huntington's disease the multiple sclerosis like model of experimental allergic encephalomyelitis peripheral neuropathies neuroblastoma Parkinson s disease Alzheimer s disease and even motion sickness syndrome also psychiatric disorders including depression and schizophrenia Finally potential important therapeutic benefits are presented for diabetic neuropathy gastrointestinal dysmotility CNS neurodegenerative disease spinal cord injuries cutaneous and corneal ulcers as well as peripheral ischemic vasculopathy Neuroanatomy of the **Oculomotor System** Jean A. Büttner-Ennever, 2005-11-09 This volume in the Progress in Brain Research series features reviews on the functional neuroanatomy and connectivity of the brain areas involved in controlling eye movements Oculomotor control of the eyes is now the subject of many research projects and advances in this field are relevant to understanding motor control in general **Cortical Function: a View from the Thalamus** V. A. Casagrande, Ray W. Guillery, S. Murray Sherman, 2005-10-17 Almost all of the messages that are received by the cerebral cortex from the environment or from the body s internal receptors come through the thalamus and much current thought about perceptual processing is based on sensory pathways that relay in the thalamus This volume focuses on three major areas the role of

thalamocortical communication in cognition and attention the role of the thalamus in communication between cortical areas the hypothesis that much or all of the information relayed by thalamus even to classical pure sensory areas of cortex represents a corollary message being sent simultaneously to motor centers It presents a broad overview of important recent advances in these areas Provides a look at brain structures involved in perception and action Includes summaries by leading investigators in the field Presents recent advances in our understanding of brain functions **Creating Coordination in** the Cerebellum Chris I. De Zeeuw, Federico Cicirata, 2004-12-11 Creating Coordination in the Cerebellum provides a multidisciplinary collection of chapters on the cerebellum with topics covering the entire spectrum from development and molecular neurobiology cell physiology and plasticity to motor control system physiology functional imaging and pathology The book not only presents novel discoveries obtained with recently developed technologies but also gives new general concepts in global issues of cerebellar development and functions By doing so it sets the standard for cerebellar research of the 21st century Provides a complete overview of current cerebellar research Includes color illustrations Contains contributions from renowned cerebellar scientists The Roots of Visual Awareness C.A. Heywood, A.D. Milner, C. Blakemore, 2003-10-31 The present volume was assembled in honor of Professor Alan Cowey FRS and attempts to embrace his wide range of research interests in visual neuroscience It is divided into four sections The first contains a group of papers dealing with different fundamental aspects of the visual system including the control and monitoring of eye movements The second is concerned with the functional organization of cortical visual areas and their role in visual perception and visually guided action The third addresses issues concerning color and motion perception along with broader questions of visual attention and the effects of selective brain damage on these different aspects of visual experience The fourth and final section of the volume deals explicitly with questions relating to visual awareness with particular emphasis on blindsight a topic on which Alan Cowey has worked extensively in recent years both in humans and in monkeys Acetylcholine in the Cerebral Cortex L. Descarries, Krešimir Krnjević, Mircea Steriade, 2004 Comprehensive expos by leading neuroscientists of current knowledge on the neurotransmitter acetylcholine in the cerebral cortex All aspects of the subject are covered from its most elementary at the molecular and cellular levels to its systemic and holistic implications including its role in cognition and involvement in human diseases and therapeutics The twenty two chapters are grouped under four main headings I Functional Morphology of the Acetylcholine Innervation in Cerebral Cortex Including Hippocampus II Modes of Action of Acetylcholine in the Cerebral Cortex III Cortical Properties and Functions Modulated by Acetylcholine and IV Clinical Pathological and Therapeutic Implications This broad perspective updates the reader on recent advances and future trends in the study of a major neuromodulatory system in brain Mammalian Endocrinology and Male Reproductive Biology Shio Kumar Singh, 2015-09-04 Mammalian Endocrinology and Male Reproductive Biology provides comprehensive and current coverage of the area of endocrinology and male reproductive biology covering not just humans but mammals in general

Written by international experts in their respective fields this multi author book also covers the latest developments in Hormones and Reproduction of Vertebrates, Volume 2 David O. Norris, Kristin H. genomics of androge Lopez, 2024-07-17 Hormones and Reproduction of Vertebrates Volume 2 Amphibians is the second of five second edition volumes representing a comprehensive and integrated overview of hormones and reproduction in fishes amphibians reptiles birds and mammals The book includes coverage of endocrinology neuroendocrinology physiology behavior and anatomy of amphibian reproduction It provides a broad treatment of the roles of pituitary thyroid adrenal and gonadal hormones in all aspects of reproduction as well as descriptions of major life history events New to this edition is a concluding assessment of the effect of environmental influences on amphibians Initial chapters in this book broadly examine sex determination reproductive neuroendocrinology stress and hormonal regulation as it relates to male and female reproductive structure and function Subsequent chapters examine hormones and reproduction of specific taxa including anuran amphibians urodeles and gymnophionids The book concludes with an examination of endocrine disruption of reproduction in amphibians Hormones and Reproduction of Vertebrates Volume 2 Amphibians is designed to provide a readable coordinated description of reproductive basics in amphibians as well as an introduction to the latest trends in reproductive research and a presentation of our understanding of reproductive events gained over the past decade It may serve as a stand alone reference for researchers and practitioners in the field of herpetology or as one of five coordinated references aligned to provide topical treatment across vertebrate taxa for researchers practitioners and students focused on vertebrate endocrinology Covers endocrinology neuroendocrinology physiology behavior anatomy and development of amphibian reproduction Includes pituitary thyroid adrenal and gonadal hormones Focuses on anuran urodele and gymnophiona amphibians Provides new coverage on environmental disruption in amphibians *Serotonin-Dopamine Interaction:* Experimental Evidence and Therapeutic Relevance Giuseppe Di Giovanni, Vincenzo Di Matteo, Ennio Esposito, 2008-09-26 This book provides a unique and timely multidisciplinary synthesis of our current knowledge of the anatomy pharmacology physiology and behavioral data of the serotonin 5 HT dopamine DA interactions Central serotonergic and dopaminergic systems play a critical role in the regulation of normal and abnormal behaviors Moreover recent evidence suggests that the dysfunction of the DA and 5 HT neurotransmitter systems contribute to various mental disorders including depression schizophrenia drug addiction and Parkinson s disease This extremely important topic is of wide interest within the scientific community with relevance not only to specialists but also to general practitioners and students The book provides a valuable contribution to the debate on new pharmacological approaches for several psychopathological states with contributions from expert neuroscientists and pharmacologists who comprehensively survey the most significant currently active areas of dopamine serotonin interactions Provides an understanding of the interaction between Serotonin and Dopamine Appeals equally to specialists general practitioners students and researchers Contributes to the debate on new pharmacological

approaches to several psychopathological states Gives a comprehensive anatomical description plus the physiology and pharmacology of dopaminergic and serotonergic systems Singles out neuropsychiatric and suggests new therapeutic Hypothalamic Integration of Energy Metabolism A. Kalsbeek, Eric Fliers, Michel A. Hofman, D.F. Swaab, Eus JW Van Someren, R.M. Buijs, 2006-08-21 The prevalence of obesity in developed countries is fast becoming a health issue on par with infectious diseases and malnutrition Research in this area has grown substantially and includes the neurochemical pathways of the hypothalamus and its role in regulating energy expenditures in the body This volume in the Progress in Brain Research series examines the emerging role of the hypothalamus as a crucial link between the sensing of nutrients and the control of insulin sensitivity glucose uptake and glucose production the integrative role of the hypothalamus in thyroid and bone metabolism the interaction between circadian information and energy metabolism and the important interplay between the immune system and energy metabolism All contributors are recognized experts in their respective specialities Provides expanded coverage of hypothalamic mechanisms involved in energy metabolism Includes many outstanding full colour illustrations Contains special sections on circadian rhythms immune system thyroid and bone metabolism Vasopressin and Oxytocin - From Genes to Behaviour to Disease Rainer Landgraf, Inga D. Neumann, 2008-09-10 Vasopressin and oxytocin are the key hormones of the hypothalamo neurohypophysial system and are well known to be critically involved in antidiuresis labor and milk ejection This book highlights the latest research on vasopressin and oxytocin covering multiple biological aspects. The capacity of both hormones to regulate various aspects of social behaviours including pair bonding aggression maternal love and sexual behaviour is a main focus as are their interactions with a variety of other neuromodulators and transmitters Moreover the book illustrates the recent development of vasopressin and oxytocin agonists antagonists as potential drugs to treat not only disturbances of body fluid homeostasis but also mental disorders including social phobia autism anxiety and depression The promising combination of basic and clinical research comprising physiology neuroendocrinology behavioral biology pharmacology imaging and molecular genetics makes this book an essential addition to both experts and scientists new to the field alike Comprehensive review of OXT and AVP physiology and behaviour Each chapter covers a novel aspect of OXT and AVP research and is written by a leading expert Review articles are ideal for experts and newcomers to the field alike Discusses fascinating behavioural effects of oxytocin and vasopressin Neurobiology of Summarizes the recent explosion of neuropeptide research physiology and behaviour is in one location Hyperthermia Hari Shanker Sharma, 2011-09-22 The effects of global warming on human health factors with special regards to our brain function are still not well understood There is an urgent need to expand our knowledge on the effects of hot environment on our brain functions in healthy and in diseased populations It is still unclear whether infectious events traumatic injuries metabolic diseases carcinogenic events cardiovascular and respiratory functions will be adversely affected by the rise in global temperature or whether environmental pollutants such as nanoparticles entered into our body system

will produce more damage at high ambient temperatures This book aims to answer these questions based on recent research carried out by top experts in the field from the USA 11 chapters Europe 8 chapters the Middle East 3 chapters Asia 2 chapters and Canada 1 These chapters are written in review style and embedded with the author's new and original data in relation to the current knowledge in the field The book is highly interesting to the first time readers beginners and students alike as well as provides in depth knowledge to the professionals In addition prospects for future research and recommendations are clearly indicated in each chapter for future growth of the subject in this highly emerging new discipline Describes the importance of brain temperature and hyperthermia in disease processes Presents research on the first observations on Nanoparticles that worsen the outcome of hyperthermia Discusses the effects of hyperthermia on the blood brain and blood cerebrospinal fluid barriers **Event-Related Dynamics of Brain Oscillations** Christa Neuper, Wolfgang Klimesch, 2006-12-03 Research on brain oscillations and event related electroencephalography EEG and event related de synchronization ERD ERS in particular became a rapidly growing field in the last decades A large number of laboratories worldwide are using ERD ERS to study cognitive and motor brain function and the importance of this tool in neurocognitive research is widely recognized This book is a summary of the most current research methods and applications of the study of event related dynamics of brain oscillations Facing the rapid progress in this field it brings together on the one side fundamental questions of the underlying events which still remain to be clarified and on the other side some of the most significant novel findings which point to the key topics for future research In particular the chapters of this volume cover the neurophysiological fundamentals and models Section I new methodological approaches Section II current ERD research related to cognitive Section III and sensorimotor brain function Section IV invasive approaches and clinical applications Section V and novel developments of EEG based brain computer interfaces and neurofeedback Section IV New Insights into Pathology and Treatment John T. Weber, Andrew I.R. Maas, 2007-07-27 Neurotrauma is the leading cause of death and disability in young adults and the incidence in older patients is increasing Neurotrauma is also a field in medicine with one of the highest unmet needs Concentrated focused and multidisciplinary efforts are required to combat this important disease Exciting findings from basic research open opportunities for improving treatment results This volume presents a unique and comprehensive overview of the latest findings and insights on translational research in neurotrauma This book should be a must for any TBI or SCI researcher interested in translating their work to the clinic as well as to clinicians interested in the latest research findings which could provide novel treatment strategies for their patients Integrates results from research on traumatic brain injury and spinal cord injury bridging basic science and clinical research Includes contributions from a worldwide panel of leading researchers and clinicians in the fields of TBI and SCI

Encyclopedia of Endocrine Diseases: E-Im Luciano Martini,2004 Autonomic Dysfunction After Spinal Cord Injury Lynne C. Weaver, Canio Polosa, 2005-10-11 Autonomic dysfunction is a major and poorly understood consequence of

spinal cord injury It is a cause of very serious disability and requires much more research It should be a focus of treatment strategies This book will be of interest to anyone involved in research and treatment of spinal cord injury since it helps to explain the tremendously negative impact on the body caused by cord injury that is not as obvious as paralysis and loss of sensation It contains a compilation of what is known about bladder cardiovascular bowel and sexual dysfunction after spinal cord injury as it relates to the changes within the autonomic nervous system control of these functions The book begins with a description of the time course of autonomic dysfunctions and their ramifications from the first hours after a spinal cord injury to the more stable chronic states The next section contains three chapters that address anatomical findings that may provide some of the foundation for autonomic dysfunctions in many of the systems The system specific chapters then follow in four sections Each section begins with a chapter or two defining the clinical problems experienced by people with cord injury The following chapters present research basic and clinical that address the autonomic dysfunctions

Computational Neuroscience: Theoretical Insights into Brain Function Paul Cisek, Trevor Drew, John Kalaska, 2007-11-14 Computational neuroscience is a relatively new but rapidly expanding area of research which is becoming increasingly influential in shaping the way scientists think about the brain Computational approaches have been applied at all levels of analysis from detailed models of single channel function transmembrane currents single cell electrical activity and neural signaling to broad theories of sensory perception memory and cognition This book provides a snapshot of this exciting new field by bringing together chapters on a diversity of topics from some of its most important contributors. This includes chapters on neural coding in single cells in small networks and across the entire cerebral cortex visual processing from the retina to object recognition neural processing of auditory vestibular and electromagnetic stimuli pattern generation voluntary movement and posture motor learning decision making and cognition and algorithms for pattern recognition Each chapter provides a bridge between a body of data on neural function and a mathematical approach used to interpret and explain that data These contributions demonstrate how computational approaches have become an essential tool which is integral in many aspects of brain science from the interpretation of data to the design of new experiments and to the growth of our understanding of neural function Includes contributions by some of the most influential people in the field of computational neuroscience Demonstrates how computational approaches are being used today to interpret experimental data Covers a wide range of topics from single neurons to neural systems to abstract models of learning

GABA and the Basal Ganglia J. M. Tepper,E. D. Abercrombie,J. P. Bolam,2007-04-17 Over the past 25 years the amount of data pertaining to the GABAergic function in the basal ganglia has increased dramatically GABA and the Basal Ganglia From Molecules to Systems is a comprehensive review of the current state of the art of knowledge about the neuroanatomy neuropharmacology and neurophysiology of the basal ganglia focusing on its GABAergic microcircuitry It serves as a complete reference to the body of knowledge about the basal ganglia its constituent neurons and their

interconnections This volume is designed to serve as a convenient all in one review and reference for experienced basal ganglia researchers as well as an introduction to the functional organization of the basal ganglia and its GABAergic circuitry for students and researchers new to the field Reviews the anatomy physiology and pharmacology of the basal ganglia itself in addition to focusing on the GABAergic circuitry of the basal ganglia Authors of each chapter leading internationally acclaimed experts in basal ganglia research **Reprogramming the Brain** Aage R. Moller, 2006-10-27 The brain is plastic and it can change its function to adapt to changing demands of various kinds The brain can also re organize and change its function to better utilize its resources when parts of the brain have been damaged through injuries and diseases This means that the brain is not hard wired but can be reprogrammed when needed This book describes different aspects of how the plasticity can become activated and how it can benefit the individual person This book provides in depth coverage of many important aspects of neural plasticity and how it applies to trauma including strokes and disorders of the central nervous system that affect memory and cognition The book also discusses how neural plasticity is involved in aphasia pain and tinnitus The roles of neural plasticity in motor rehabilitation and in adaptation to prostheses such as cochlear and cochlear nucleus implants are also topics of the book Provides in depth coverage of many important aspects of neural plasticity and how it applies to trauma including strokes and disorders of the central nervous system that affect memory and cognition Discusses how neural plasticity is involved in aphasia pain and tinnitus Explains the roles of neural plasticity in motor rehabilitation and prosthesis such as cochlear and cochlear nucleus implants

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