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PROGRESS IN
BRAIN RESEARCH

Advances in Vasopressin
and Oxytocin
From Genes to Behaviour to Disease

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Advances In Brain Vasopressin Volume 119 Progress In Brain Research

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Advances In Brain Vasopressin Volume 119 Progress In Brain Research:

Advances in Brain Vasopressin I.J.A. Urban, J.P.H. Burbach, D. De Wied, 1999-02-16 Advances in Brain Vasopressin elucidates the functions of the regulatory peptide vasopressin in the nervous system and reviews the current status of this field at different levels. It deals with the cell biology and anatomy of the neurons that produce vasopressin in the brain and provides an overview on the receptors of vasopressin and the signal transduction pathways that they activate including the cellular responses that are triggered by vasopressin. Reviews are presented on the modulation of behavior induced by vasopressin in a number of different contexts such as sex linked and steroid dependent behaviors, social behaviors and learning and memory. Furthermore, the volume deals with several controversial issues in the field by presenting overlapping chapters from different research groups in order to provide the reader with current views. Highly relevant and useful for those working on this first neuropeptide and for young investigators entering the field and in addition shows how important a multidisciplinary approach is to unravelling the function of a neuropeptide in the brain. **Vasopressin and Oxytocin:**

From Genes to Clinical Applications D. Poulain, S. Oliet, D. Theodosis, 2002-10-24 The articles comprising this volume were first presented at the World Congress on Neurohypophysial Hormones held in Bordeaux France on September 8-12, 2001. This conference brought together more than 170 scientists from 18 countries who belong to the different fields of interest representing research in the hypothalamo-neurohypophysial system. Two neurohypophysial neurohormones, oxytocin and vasopressin, exert a variety of central and peripheral actions and thus involve different scientific domains which too often even today do not always find the appropriate occasion to interact. This volume is composed of chapters dealing with topics varying from basic and clinical neurosciences and neuroendocrinology to reproductive, renal, cardiovascular physiology and pathology. It encompasses all areas of current neurohypophysial research and should be of vital interest as an integrative reference volume to specialized investigators and as an excellent introductory text to students, scientists and clinicians not yet closely familiar with the field. To ensure novelty and to make sure that all topics of current importance were covered, plenary and symposium speakers as well as poster presentations concentrated on recent advances made in the last few years.

Brain Mechanisms for the Integration of Posture and Movement, 2003-10-30 Brain Mechanisms for the Integration of Posture and Movement Vision: From Neurons to Cognition C. Casanova, M. Ptito, 2001-10-25 Internationally renowned researchers discuss how the various parts of the brain process and integrate visual signals providing up-to-date original findings, reviews and theoretical proposals on visual processing. This book addresses the basic mechanisms of visual perception as well as issues such as neuronal plasticity, functional reorganization and recovery, residual vision and sensory substitution. Knowledge of the basic mechanisms by which our brain can analyze, reconstruct and interpret images in the external world is of fundamental importance for our capacity to understand the nature and causes of visual deficits such as those resulting from ischemia, abnormal development, neurodegenerative disorders and normal aging. It is also essential to

our goal of developing better therapeutic strategies such as early diagnosis visual training behavioral rehabilitation of visual functions and visual implants

Plasticity in the Adult Brain: From Genes to Neurotherapy M.A. Hofman,G.J. Boer,Eus JW Van Someren,J. Verhaagen,D.F. Swaab,A.J.G.D. Holtmaat,2002-10-23 In the past decade neuronal plasticity has become a major theme of modern neurobiology from cellular and molecular mechanisms of synapse formation in worms and insects to behavioural recovery from strokes in elderly humans For this reason the focus of interest in the present volume of Progress in Brain Research is on the topic of neuroplasticity in mature organisms including humans Contributions range from neurogenesis and synaptic plasticity in the adult primate brain to neural mechanisms of learning and memory and the influence of environmental factors and aging on the functional potential of the central nervous system Several contributions focus on recent developments in neural regeneration and brain repair providing challenging evidence that the use of stem cell neurotherapy may be beneficial to humans suffering from various neurological and psychiatric diseases This volume integrates new information on the cellular and molecular mechanisms of neuroplasticity and highlights challenging future questions in this exciting and topical area of neuroscience

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

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

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

Nucleotides and their Receptors in the Nervous System P. Illes,H. Zimmermann,1999-08-31 The study of purinergic mechanisms has for long been focused on the actions of the nucleoside adenosine whereby the contribution of nucleotides to the signaling systems has been underestimated Based on the proceedings of a IUPHAR Satellite Conference held in Leipzig Germany this book offers a comprehensive update and overview of nucleotide release the structure and function of nucleotide receptors nucleotide metabolizing ecto enzymes as well as the physiological functions of nucleotides in the nervous system The physiology and molecular biology of receptors for ATP and other nucleotides are examined as are the physiology and molecular biology of enzymes that hydrolyze extracellular nucleotides At present a pharmacology of the nucleotide signaling system is being developed Of particular interest is the production of receptor subtype specific antagonists and of drugs that selectively affect the extracellular lifetime of the nucleotide An excellent source of reference for institutes of pharmacology biochemistry neurology zoology and physiology and for the pharmaceutical industry

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