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Advances in Vasopressin and Oxytocin - From Genes to Behaviour to Disease Roles of Vasopressin and Oxytocin in Memory Processing *Perspectives on Vasopressin Vasopressin and Oxytocin* Osmotic Stress Induces Transcriptional Changes in Vasopressin and Vasopressin 1b Receptor Gene Expression Vasopressin and Oxytocin: From Genes to Clinical Applications Oxytocin, Vasopressin and Related Peptides in the Regulation of Behavior Neurobiology of Vasopressin The Vasopressin System and Behavior Vasopressin Neurohypophysis Vasopressin *Action of Vasopressin and Oxytocin in the Brain* Oxytocin, vasopressin and their structural analogues, edited by Josef Rudinger *Brain Serotonin Osmoregulation of Vasopressin and Oxytocin* Vasopressin and Oxytocin in Biological Systems Vasopressin and Oxytocin Receptors in the Central Nervous Systems *Advances in Brain Vasopressin The Role of Vasopressin in Physiology and Behavior* Functional Significance of Central Vasopressin and Oxytocin in Rodents The Site of Action of Vasopressin and Other Peptides in Causing Corticotropin Release Arginine Vasopressin and Somatostatin Receptors in Rat Astrocytes

Characterization of Arginine Vasopressin and Oxytocin Containing Systems in the Brain of the Adult and Developing Brazilian Opossum, Monodelphis Domestica ***Involvement of Vasopressin and Oxytocin in the Regulation of Human Uterine Activity*** **Vasopressin Development of a Routine Assay for Arginine Vasopressin and Investigation of Vasopressin Levels in Hyponatraemia Mechanisms of Arginine Vasopressin- and Oxytocin-induced Glucagon Release Functional Roles of Arg-vasopressin and Oxytocin on Cellular Excitability in Neurons of the Rat Lateral Amygdala The role of Vasopressin and its analogues in haemostasis** ***Interaction of Corticotropin-releasing Factor, Vasopressin and Glucocorticoids on the Pituitary Release of Corticotropin*** **Arginine Vasopressin and the Medial Amygdaloid Nucleus Program & Abstracts** ***Regulation of Vasopressin and Oxytocin Gene Expression in the Hypothalamo-neurohypophyseal System of the Rat*** **The Roles of Arginine Vasopressin and Corticotrophin Releasing Factor in Corticotrophin Secretion in Humans The Effect of Vasopressin and Oxytocin on Reelin Expression in Purkinje Cells A Role for Vasopressin and Oxytocin in Parental Behavior of the Male Sprague-Dawley Rat Vasopressin and Blood Pressure Regulation in the Rat Expression of Bovine Vasopressin and Oxytocin Transgenes in Mice Early Changes in Kidney Function During the Intravenous Infusion of Vasopressin and Angiotensin-II. The Effects of Vasopressin and Oxytocin on Methamphetamine**

The mechanisms by which animals regulate the volume and composition of their body fluids has long had a particular fascination for students of biology. As a consequence, the subject can lay claim to an impressive record of ground breaking scientific achievements as well as a provocative body of philosophical speculation concerning the role of the system in the origin and evolution of life. Indeed, the entire concept of homeostasis on which so much of o~r current biologic thinking is based, derives from Claude Bernard's pioneering exploration of the forces that determine the composition of this 'internal sea'. Other seminal achievements credited to this area of inquiry include the first description of a genetically transmitted human disease (familial neurogenic diabetes insipidus); the first isolation sequencing and synthesis of a peptide hormone (vasopressin and oxytocin); the first demonstration of peptide hormone synthesis by way of a larger protein precursor; the first description of resistance to the biologic actions of a hormone (nephrogenic diabetes insipidus); and the conceptual realization of the unique counter-current mechanism that permits concentration of the urine. This record of far reaching and fundamental advances has been distinguished by many fruitful inter actions between clinical and basic science. 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. 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 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 • Summarizes the recent explosion of neuropeptide research, physiology and behaviour, is in one location With contributions by Clarke, G.; Lang, R.E.; McKinley, M.J.; Merrick, L.P.; Rascher, W.; Richter, D.; Sofroniew, M.; Unger, T.; Weindl, A. These results suggest that AVP caused glucagon release through both Ca2-dependent and -independent pathways. For the Ca2+-dependent pathway, our results were consistent with the current concept that the G[Subscript q] protein activates phospholipase C, which catalyzed the formation of inositol, 1,4,5-trisphosphate (1P3) and diacylglycerol (DAG). 1P3 induced Ca2+ releasefrom the endoplasmic reticulum, thereby triggering Ca2+ influx via receptor-operated Ca2+ channel and increasing glucagon release. Our results further suggest that, DAG activate novel

(nPKCs) and atypical protein kinase C (aPKCs). nPKCs may exert negative feedback on AVP-induced increase in 1P3 production, leading to an attenuation of [Ca2+]i, which, in turn, attenuated AVP-induced glucagon release. On the other hand, aPKCs may contribute to the stimulatory effect of AVP on glucagon release. We studied the effects of arginine vasopressin (AVP) and somatostatin (SS) on glutamate release and characterized the receptors that mediate the effects of these two peptides from rat astrocytes. A comparative overview of the effects of neuropeptides on behavior, examining parallel findings in both humans and non-human animals. Vasopressin, Volume 113 in the Vitamins and Hormones series, highlights new advances in the field, with this new volume presenting updates on timely topics, including Diabetes Insipidus in Pregnancy, Vasopressin Inactivation: Role of Insulin-Regulated Aminopeptidase, Vasotocin and the Origins of the Vasopressin/Oxytocin Receptor Gene Family, Vasopressin V2 Receptor Ligand Recognition, Development and Therapeutic Potential of Vasopressin Synthetic Analog [V4Q5]dDAVP as a Novel Anticancer Agent, Cellular Junctions and Vasopressin, Vasopressin Actions in the Kidney Renin Angiotensin System and its Role in Hypertension and Renal Disease, Oxytocin/Vasopressin-Like Neuropeptide Signaling in Insects, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the

latest release in the Vitamins and Hormones series Includes the latest information on Vasopressin The concept for Vasopressin: Principles and Properties originated during the sum mer of 1983. From reviewing the rich and diverse literature on vasopressin, it became evident that the rapid advancements in this field made it difficult to syn thesize the information gathered from divergent scientific disciplines into a coherent view of the biological role of vasopressin. We perceived the need for a series of critical reviews delineating this recent progress. Over the past decade, major advances have been made in studies of the anatomy, physiology, phar macology, molecular biology, and behavioral activities of vasopressin. This is, in no small measure, due to the finding that vasopressin can no longer be regarded solely as a neurohypophysial hormone. Our present knowledge is that vasopressin is synthesized in also has an axonal messenger role in the nervous system and of the brain, although the functions of vasopressin in these periph sites outside of vasopressin eral sites are not well understood. In order to prepare an overview concentrating on recent studies in vertebrates, authors were selected based on their expertise and asked to review their research area, including the work from other laboratories. It was our intent to provide an updated definitive reference which would complement and extend such past texts as Neurohypophysial Hor mones and Similar

Polypeptides (Handbook of Experimental Pharmacology, Vol ume XXIII, 1968) and The Pituitary Gland and Its Neuroendocrine Control (Handbook of Physiology, Section 7: Volume IV, 1974). Vasopressin is a hormone which has an increasingly important profile. Not only does it play a physiologically significant role in renal water regulation but it also has other renal actions and plays a role in overall cardiovascular control. Even more interesting is the recent growing interest in its potential effects on the brain, notably its influence on specific behaviours. This monograph about the polypeptide vasopressin covers all aspects relating to the production, control of release, and actions of this molecule within the body, including its roles as a hormone and as a central neurotransmitter. A consideration of the evolution of the molecule across the species and a brief historical perspective are also included. Clinical conditions associated with hypo- and hyper-production states are considered together with aspects of treatment, in addition to other clinical correlates. Sample Chapter(s). Chapter 1: Introduction to Vasopressin (204 KB). Contents: Introduction to Vasopressin; Comparative and Evolutionary Aspects of Vasopressin; The Neurohypophysial System: Synthesis and Metabolism of Vasopressin; Vasopressin Receptors, the Signalling Cascade and Mechanisms of Action; Pharmacology of the Vasopressin Receptors; Vasopressin and Its Renal

Effects; Vasopressin and the Cardiovascular System; Vasopressin and Its Interactions with Other Hormones and Control Systems; Understanding the Role of Vasopressin in the Hypothalamo-Pituitary Adrenocortical Axis; Vasopressin: The Central Systems; Vasopressin Secretion: Mechanisms of Control of Secretion from the Posterior Pituitary Gland; Clinical Aspects of Vasopressin. Readership: Academics, researchers, and postgraduates in the field of endocrinology. This monograph provides a comprehensive overview of recent advances in the field of vasopressin and oxytocin. In the summer of 1997, scientists from over 20 countries congregated in Montreal for the 1997 World Congress of Neurohypophysial Hormones, a conference that united the fields of vasopressin, neurohypophysis and oxytocin in a single joint meeting that gave rise to the present book. The organization of a joint meeting was prompted by several recent developments. Specifically the molecular characterization of the vasopressin/oxytocin receptor family made it mandatory to adopt an integrated view and to discuss the vasopressin/oxytocin ligand/receptor family as a whole. To ensure em phasis on novelty, the conference focused on advances made over the last two years and also included important contributions by scientists that had not previously been associated with the vasopressin/oxytocin field. Vasopressin and oxytocin are two neurohormones that exert a wide spectrum of cen tral and peripheral actions.

Accordingly, the vasopressin/oxytocin field embraces a large number of different domains, ranging from neuroscience, endocrinology, and oncology to renal, reproductive, and cardiovascular physiology and pathology. Vasopressin and its homologues are evolutionarily ancient neuropeptides that are important to the neural modulation of behavior in many species. Over the last several decades there has been an emergence of cross-species consensus with regards to the broad behavioral domains that the vasopressin system influences. However, there are nuanced species- and sex-differences in the functions of this system, as well as evidence for cross-talk between this system and the oxytocin system. For this Research Topic, reviews and research articles from investigators across the field were solicited, with the goal to highlight some of the complexity and diversity within this system. This collection challenges researchers to broaden their understanding of this system as well as identifies areas in which additional research is needed. Topic areas featured include: - System complexity - Sex and species differences - Developmental effects - Human and non-human primates The amygdala is a critical part of the limbic system with important roles in social behavior. Abnormal activity in the lateral amygdala nucleus (LA) has been implicated in several disorders, including autism spectrum disorder (ASD) in which abnormal social functioning is a primary symptom. The peptide

hormones arginine-vasopressin (AVP) and oxytocin (OT) are strongly implicated in social behavior, and may also be involved in the pathophysiology of ASD. AVP and OT increase excitatory responses in the brain, however their role in the LA is unknown. Here, the effects of AVP and OT on membrane properties of LA neurons were investigated using whole-cell recording of LA neurons in vitro. AVP decreased accommodation and hyperpolarization-activated current (Ih) in LA pyramidal cells, resulting in increased excitability. OT increased action potential accommodation and Ih resulting in decreased excitability. These results suggest AVP and OT may modulate social behavior by controlling excitability in the amygdala. This work aims to bring together scientific progress in neurohypophysis, vasopressin and oxytocin. The subjects covered in this volume include the molecular analysis of anatomy and biochemistry of the neurohypophyseal system, and the structure and function of neurohypophyseal hormone receptors. The Roles of Vasopressin and Oxytocin in Memory Processing reviews research progress in a subfield of Behavioral Pharmacology concerned with vasopressin's (VP's) and oxytocin (OT's) roles in memory processing (MP). As hormones, VP is well-known for its pressor and antidiuretic action, and OT for its contribution to parturition and nursing. As neurotransmitters, they participate in a wide variety of self- and species-preserving functions expressed at

psychological, physiological and behavioral levels. Advances in Pharmacology is available online on ScienceDirect – full-text online of volumes 48 onwards. Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important compliment to primary research. Digital delivery ensures users reliable, 24-hour access to the latest peer-reviewed content. The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier's extensive researcher network. For more information about the Elsevier Book Series on ScienceDirect Program, please visit: http://www.info.sciencedirect.com/bookseries/ * Comprehensive coverage of both alternative theories and relevant research * Several key chapters reviewed by researchers whose studies and theories formed the subject matter of these chapters * Basic laboratory research focus with potential application for understanding and treating human memory disorders

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