

Volume 13 • April 2024 • ISSN 1662-5063

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Frontiers in Neuroendocrinology



Frontiers In Neuroendocrinology Vol 5

Jurgen Aschoff



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Psychopharmacology Bulletin, 1979 **Multiple Trauma** R. J. Wilder, 1984 **Biological Rhythms** Jurgen Aschoff, 2013-03-09 Interest in biological rhythms has been traced back more than 2 500 years to Archilochus the Greek poet who in one of his fragments suggests i VWO KE o olos pv J tos txv pW7rOVS XH recognize what rhythm governs man Aschoff 1974 Reference can also be made to the French student of medicine J J Virey who in his thesis of 1814 used for the first time the expression horloge vivante living clock to describe daily rhythms and to D C W Hufeland 1779 who called the 24 hour period the unit of our natural chronology However it was not until the 1930s that real progress was made in the analysis of biological rhythms and Erwin Bunning was encouraged to publish the first and still not outdated monograph in the field in 1958 Two years later in the middle of exciting discoveries we took a breather at the Cold Spring Harbor Symposium on Biological Clocks Its survey on rules considered valid at that time and Pittendrigh's anticipating view on the temporal organization of living systems made it a milestone on our way from a more formalistic description of biological rhythms to the understanding of their structural and physiological basis **Angiotensin and Blood Pressure Regulation** Joseph Harding, 2012-12-02 Angiotensin and Blood Pressure Regulation examines the role of angiotensin in blood pressure regulation with emphasis on its ability to influence the inotropic state directly via activation of myocardial receptors and indirectly by potentiating the release of catecholamines from sympathetic nerve terminals The book also explains how angiotensin acts directly to regulate thirst and sodium appetite and via antidiuretic hormone to control water reabsorption in the kidney This book is comprised of eight chapters and begins with a review of the neuronal actions of angiotensin primarily those in the brain as well as the location and function of brain angiotensin II receptors The effects of angiotensin on elements of the vascular wall and myocardium are also discussed along with its function in hypovolemia reproduction and neurotransmission Subsequent chapters explore some basic and functional considerations of the renin angiotensin system in the brain the biochemical processing that is required for angiotensin activation and inactivation how angiotensin affects peripheral resistance and the potency of angiotensin III as a pressor and dipsogenic agent in normotensive and hypertensive animal models This monograph will be a useful resource for pharmacologists and physiologists **Prolactin Lesions In Breast Uterus & Prostate** Hiroshi Nagasawa, 2020-04-15 First Published in 1989 this book offers a full comprehensive guide into prolactin function and the treatment of lesions Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for Students of Medicine and other practitioners in their respective fields **Drugs, Neurotransmitters, and Behavior** Leslie L. Iversen, Susan D. Iversen, Solomon H. Snyder, 2013-06-29 Volume 18 of the Handbook of Psychopharmacology represents the first of a series of volumes intended to bring earlier sections of the work up to date Volumes 7 8 and 9 published in 1977 and 1978 dealt with principles of behavior drugs and neurotransmitters and neuroanatomy In subsequent volumes dedicated to these issues a mixture of topics will be

covered in a given volume covering both advances in basic knowledge in these three areas of the subject and reviews of theoretical and methodological issues deemed to be of particular relevance at present L L S D S H S vii CONTENTS

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3 History of Development of Knowledge about SDL 60 3 1 Nineteenth Century Reports Prostaglandins and their Inhibitors in Clinical Obstetrics and Gynaecology M. Bygdeman, G. Berger, L.G. Keith, 2012-12-06 It is clear today that several prostaglandins play an important role in the regulation of many of the physiological events of the reproductive organs in the human Both naturally occurring prostaglandins and their analogues are used routinely in many countries to ripen the cervix and induce labour at term as well as to dilate the cervix and to terminate pregnancy Prostaglandin biosynthesis inhibitors are widely used in the treatment of primary dysmenorrhoea The editors have aimed at an accurate thorough yet easily understandable review of the status in 1986 of medical knowledge regarding both the physiological importance and the clinical use of prostaglandins and their inhibitors in obstetrics and gynaecology I believe this book will be of value for all clinicians concerned with reproductive health The list of authors guarantees an authoritative and up to date review of this active field SUNE BERGSTROM Karolinska Institutet Stockholm Sweden Table Examples of clinical use of natural prostaglandins and some prostaglandin analogues Indications Prostaglandin Route of administration Manufacturer Dilatation of the cervix prior to vacuum aspiration 15 methyl PGF Intramuscular Upjohn USA 2 to vacuum aspiration 16 phenoxy PGE methyl sulphonylamide Intramuscular Schering AG West Germany 2 16 16 dimethyl PGE methyl ester 1 Vaginal ONO Japan May ONO Japan PGF 20 Upjohn USA PGE Vaginal 2 Upjohn USA 15 methyl PGF 2 **Endocrinology of the Heart** W. Kaufmann, Gerhard Wambach, 2012-12-06 Starting with the morphology of the myoendocrine cell and the biochemistry and physiology of cardiac hormones the book describes pathophysiological findings and discusses their clinical relevance in congestive heart failure arterial hypertension renal insufficiency and cirrhosis of the liver Furthermore evidence is presented for the role of the heart as a target organ for various endocrine factors such as thyroid hormones catecholamines renin angiotensin growth hormones and endogenous opioids Alcohol and the Endocrine System Samir Zakhari, 1993 **Neurotransmitter Receptors** Sam J. Enna, 2013-12-11 Since the discovery that neuronal transmission can be chemically mediated a large number of compounds have been found in the mammalian central nervous system which appear to function as neurotransmitter agents Recently electrophysiological and biochemical methods have been developed which have enabled neuroscientists to classify better the

myriad of neurotransmitter receptor sites in brain and to study their properties in finer detail As a result of these investigations a significant number of new discoveries have been made about the mechanisms involved in neurotransmitter receptor interactions the role neurotransmitters play in the actions of pharmacological agents and in the pathogenesis of various neuropsychiatric disorders The present two volume text was compiled to summarize the information relating to the physiological biochemical pharmacological and functional characteristics of neurotransmitter receptor sites While emphasis is placed on neurotransmitter receptors in the mammalian central nervous system the characteristics of these receptors in other species both vertebrate and invertebrate are also discussed where appropriate While these books cover the major classes of putative neurotransmitters amino acids peptides and biogenic amines and are therefore broad in scope each is discussed in a concise fashion to highlight the major points of historical and contemporary interest In addition to outlining data each chapter addresses current theories relating to the various aspects of receptor properties and function in an attempt to reveal the directions of future research and as a stimulus for other workers in the field

Brain and Pituitary Peptides W. Wuttke, A. Weindl, K. H. Voigt, - R. Dries, 1980-03-31

The Endocrine Pancreas and Juvenile Diabetes David M. Klachko, 2013-03-09 Dr Robert L Jackson Professor of Child Health at the University of Missouri Columbia decided to retire from clinical practice in 1977 and the Department of Child Health planned a conference in his honor The Thirteenth Annual Midwest Conference on Endocrinology and Metabolism also was in the planning stages and scheduled for two days in the fall It seemed appropriate to combine the two into an expanded three day conference In view of Dr Jackson's international reputation in the study and care of children with diabetes mellitus the conference topic was not difficult to find Experts in this field were delighted to be asked to speak at a conference in Dr Jackson's honor We selected a number of excellent speakers to survey the physiology and pathophysiology of pancreatic hormones and their effects in diabetes mellitus to discuss current knowledge of the microvascular complications of the disease and to put it all into the proper historical perspective of where we have been and where we are going We think the conference achieved its objective to pay meaningful tribute to a distinguished member of the scientific community As with any conference the conversion of the presentations and discussions to the printed page is a long and arduous process Many manuscripts were completed well after the conference and references often are more recent than the date of the conference

Role of Melatonin and Pineal Peptides in Neuroimmunomodulation Franco Fraschini, Russel J. Reiter, 2012-12-06 Research related to the pineal gland has advanced rapidly in the last three decades since the discovery of its most important hormone melatonin This indoleamine has been shown to have a large variety of effects in the organism the bulk of these actions were initially thought to relate the pineal gland to the reproductive and endocrine systems It is now apparent however that the physiologic interactions of the pineal and its hormones far transcend its control of endocrine function One field of pineal research that has developed rapidly within the last 5 years has been the demonstration of its relationship to the immune system Since the pineal gland is

part of the central nervous system these observations generally fall in the category of neuroimmunology an area that in its own right has received a great deal of attention in the last decade Thus a NATO Advanced Study Course entitled Role of Melatonin and Pineal Peptides in Neuroimmunomodulation was convened in Erice Sicily on June 3-9 1990 This book is a result of the scientific presentations given at the workshop The contributions to the book include mini review articles which summarized the presentations of the invited speakers as well as a selected number of brief communications where the subject matter was in line with the theme of the Advanced Study Course

Sex Steroids and the Cardiovascular System
 Peter Ramwell, G. Rubanyi, E. Schillinger, 2012-12-06 Evidence accumulated over the past decade show that gonadal steroid hormones participate in an important way in the physiological and pathophysiological regulation of the cardiovascular system The hormonal profile appears to put males at a disadvantage biologically in terms of cardiovascular diseases The incidence of hypertension is higher in men than in premenopausal women indicating an influence of gender on the hypertensive disease process Males and females have equivalent cholesterol levels until puberty but males suffer an exponential increase in heart disease in their forties while the female rise does not start until a decade later after menopause Animal and human studies provided ample evidence that estrogens lower the levels of low density lipoproteins and keep high density lipoproteins elevated These changes may be advantageous in the prevention of heart disease Coronary artery atherosclerosis has been shown to be more pronounced in ovariectomized female monkeys as in intact females Androgen conversely lowers the high density lipoproteins and elevates low density lipoproteins Regarding blood pressure it is well established that hypertension is more severe or develops more rapidly in male than female rats in several genetic forms of hypertension and that gonadal steroid hormones are probably playing an important role in explaining this observation Risk factors of human hypertension and coronary heart disease include menopause and ovariectomy

Psychopharmacoenocrinology and Depression Research Gregor Laakmann, 2012-12-06 1 1 Outline of the Study In this study the influence of psychotropic drugs on anterior pituitary hormone APR secretion was investigated in healthy subjects and in depressed patients The basis for this study is formed by pharmacological investigations which indicate that the therapeutic effect of psychotropic drugs can be attributed to their functional influence on central nervous aminergic impulse transmission stimuli as well as by endocrinological investigations which show that central nervous aminergic neurons influence APR secretion in man The purpose was to find out if psychotropic drugs with differing pharmacological actions also influence APR secretion differently even though the complex processes of central nervous stimuli transmission the effect of psychotropic drugs on these processes as well as the action of aminergic neuronal systems on APR secretion are not completely understood Furthermore it was investigated if it is possible to reach conclusions on the effects of drugs on central nervous aminergic neurons based upon APR secretion data Specifically the effects of various antidepressants neuroleptics and benzodiazepine type tranquilizers on the secretion of growth hormone GR prolactin PRL adrenocorticotrophic hormone

ACTR and cortisol were investigated in healthy male subjects The first part of this study presents in detail the results of these experiments and also incorporates the results of other investigators It is endeavored to answer the question whether and to what extent the different psychotropic drugs influence APR secretion and whether the APR secretion profiles of the different psychotropic drugs can serve as a possible pharmacoendocrinological model in humans *Cellular and Molecular Biology of the Renin-Angiotensin System* Mohan K. Raizada, 2018-01-18 Cellular and Molecular Biology of the Renin Angiotensin System provides the first review and update of the state of the art cellular and molecular aspects of the renin angiotensin system The book presents detailed analyses from world experts on each component of this system including future directions Topics range from angiotensin II receptor subtypes to processing of renin to the use of transgenic animal models for studying the role of this system in hypertension Cellular and Molecular Biology of the Renin Angiotensin System is essential reading for physiologists of the renin angiotensin system endocrinologists cardiovascular specialists renal physiologists and neurobiologists

The Pituitary Adenoma Kalmon D. Post, 2013-11-11 The idea for this book developed as an outcome of a multidisciplinary symposium entitled Pituitary Adenoma Update that was held at Tufts New England Medical Center in April 1977 The purpose of that symposium was to put together our current knowledge of the cause of pituitary tumors and discuss the diagnostic evaluation and management that was now appropriate in light of the rapid advances that had taken place so recently in this area Those of our colleagues who had presented papers at the symposium as well as a number of others were invited to contribute to this volume which should serve as a presentation of the state of the art on all aspects of pituitary tumors We felt that such a book would be of value to endocrinologists neurosurgeons neuroradiologists and pathologists who are involved in the investigation or care of patients with pituitary disorders For a number of reasons a review of pituitary adenomas seems particularly timely Rapid advances have taken place coincidentally in the fields of neurosurgery neuroendocrinology neuroradiology neuropathology and neuropharmacology Seven major developments in these areas have occurred independently and almost simultaneously that have virtually revolutionized our approach to pituitary adenomas

Subject Guide to Books in Print, 1996 *Sleep* D. Ganten, D. Pfaff, 2012-12-06 There is no doubt that a major problem of present day research workers especially in the life sciences is the plethora of publications of all kinds abstracts short communications full papers in journals of varying quality reviews and proceedings of symposia with in addition an unprecedented duplication of publications Even for experts working in the field it is almost impossible to keep an up to date view of all current research articles The Western grant and career system encourages scientists to publish as much as possible The editors and publishers of our new series are convinced that the format of Current Topics in Neuroendocrinology leads a way out of this confusion Each volume is conceived as a concise up to date textbook on one well defined and currently exciting subject Different from classic textbooks however the speed of publication compares favorably with that of many journals this ensures an immediacy which is impossible in textbooks On the other hand topics to be included in this series

are also sufficiently reliable with enough work being done to treat them from several aspects Each volume will supply four to six chapters treating such a broad topic as neuroendocrinology from several points of view for example anatomic electrophysiologic endocrine and behavioral views Where clinical data are immediately available they will be included No other 360les treating the nervous or endocrine systems provides such a coordinated set of chapters on an interesting topic in each volume

Endogenous Peptides and Learning and Memory Processes Joe L. Jr. Martinez, 2012-12-02 Endogenous Peptides and Learning and Memory Processes presents the role of pituitary and central nervous system peptidergic systems in the modulation of memory and learning This book discusses the various experimental findings concerning the role of peptides in attention memory conditioning opiate tolerance and amnesia Organized into five parts encompassing 26 chapters this book starts with an overview of the possible chemical relationship between melanocyte stimulating hormone MSH and adrenocorticotrophic hormone ACTH This text then discusses the complex behavioral activities of ACTH involving processes that serve the adaptive abilities of the organism such as memory learning motivation attention and arousal Other chapters consider the possibility that post training injection of some hormones may aid retention performance following training in a one trial inhibitory avoidance task The final chapter deals with the various types of behavioral tests for studying the central nervous system effects of peptides This book is a valuable resource for specialists teachers clinicians and researchers in the fields of neuropharmacology behavioral pharmacology experimental psychology and psychopharmacology

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