

# *Current Topics in Neuroendocrinology*

Editors: D. Ganten and D. Pfaff

## *Sleep*

**Clinical and Experimental Aspects**

Springer-Verlag Berlin Heidelberg New York

# Sleep Clinical And Experimental Aspects Current Topics In Neuroendocrinology Volume 1

**Detlev Ganten, Patrick J. Mulrow**



## **Sleep Clinical And Experimental Aspects Current Topics In Neuroendocrinology Volume 1:**

**Neuroendocrinology of Mood** Kjell Fuxe, Detlev Ganten, Donald Pfaff, 2012-12-06 With contributions by numerous experts  
Eating, Sleeping, and Sex Albert J. Stunkard, Andrew S. Baum, 2020-03-12 The lack of balance and the failure of regulation in life has traditionally been recognized in such extreme symbolic acts as overconscientiousness or a criminal lack of conscience This volume shows how the neurotic process affects biologic functions distorting natural functioning Three distinct functions and their respective extremes are discussed eating obesity bulimia nervosa sleeping insomnia excessive somnolence and sex hypersexuality including child molestation hyposexuality including inhibited sexual desires

*Stimulus-Secretion Coupling in Neuroendocrine Systems* Brian Pickering, Detlev Ganten, Donald Pfaff, 2012-12-06 The role of electrical signalling in the control of endocrine secretions by the brain has been clear for many years Recently the influences of hormones on synthetic events in neuroendocrine cells have raised new questions concerning the peptides released from such neurons This volume concentrates on the relation between these two fields and asks how electrical action potentials facilitate secretion of substances from nerve cells which control endocrine events While stimulus secretion coupling has been studied extensively in other physiological contexts this is the first treatment of the phenomenon in an exclusively neuroendocrine setting  
*Central Cardiovascular Control* D. Ganten, D. Pfaff, 2012-12-06 The most prominent function of the central nervous system is the control of motor functions by rapidly transmitted impulses through efferent cranial and spinal peripheral nerves Besides electrically transmitted neural impulses humoral mechanisms with more sustained actions are exercised by the brain and spinal cord to regulate body homeostasis Thus the brain may be regarded as an endocrine gland discharging neurohormones peptides either into the general circulation neurohypophyseal hormones or into the hypothalamo adenohypophyseal portal circulation releasing and inhibiting hormones The brain therefore which is protected by the blood brain barrier from disturbing and potentially noxious exogenous and endogenous agents circulating in the blood has to have certain neurohemal regions beyond this barrier such as the neural lobe and the median eminence infundibulum where neurohormones have free access to the blood stream To regulate somatic and autonomic functions in the best possible way the central nervous system is highly dependent on feedback signals conveyed through somatic and visceral afferent nerves as well as on peripheral humoral signals such as peripheral hormones and other circulating substances that are under homeostatic regulation e g peptides amines electrolytes and other biologically active agents In this chapter the role of the blood brain barrier in the regulation of these substances will be discussed with special emphasis on the access through the blood brain barrier to cardiovascular centers 2  
**Morphology of Hypothalamus and Its Connections** Detlef Ganten, Donald Pfaff, 2012-12-06 With contributions by numerous experts

Neurobiology of Vasopressin D. Ganten, D. Pfaff, 2012-12-06 With contributions by Clarke G Lang R E McKinley M J Merrick L P Rascher W Richter D Sofroniew M Unger T Weindl A  
*National Library of Medicine Current Catalog* National

Library of Medicine (U.S.), **Current Catalog** National Library of Medicine (U.S.), 1983 First multi year cumulation covers six years 1965-70 **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 volumes treating the nervous or endocrine systems provides such a coordinated set of chapters on an interesting topic in each volume

Positron Emission Tomography of the Brain W.-D. Heiss, M.F. Phelps, 2012-12-06 The International Symposium on Positron Emission Tomography of the Brain was held at Schloss Auel in Lohmar near Cologne FRG on May 3rd to 8th 1982 This isolated place was chosen to bring together and keep together people active in research employing PET The participants were asked to report their ongoing work to discuss upcoming problems and to indicate future developments In contrast to the large international meetings which suffer from lack of time for discussion and are affected by the distractions of major cities our symposium provided ample opportunity for discussion during the scientific sessions and guaranteed a free exchange of ideas during the leisure time spent together It also gave us the chance to celebrate the founding of a new Max Planck Institute for Neurological Research whose two departments are headed by Dr K A Hossmann and myself and to mark the start of positron emission tomography in our laboratory The book contains the invited papers presented at the meeting and the formal minipapers given at the final general discussion moderated superbly by Dr L Sokoloff In order to accelerate publication the discussions of the individual papers and the final discussion have been omitted However every participant will remember the atmosphere and the highlights of the discussions which gave a special character to the whole event

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, ACTH 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.

### **Pharmacology of**

**Antihypertensive Therapeutics** Detlev Ganten, Patrick J. Mulrow, 2012-12-06. The previous volume on Antihypertensive Agents in the Handbook of Experimental Pharmacology published in 1977 was edited by the late Franz Gross from the Department of Pharmacology in Heidelberg who was one of the grand old men in hypertension research. Now more than 10 years later it is necessary to update this volume. From the early days of antihypertensive drug treatment starting about 30 years ago with drugs such as reserpine and guanethidine the pharmacology of cardiovascular therapy has evolved into a highly sophisticated and effective therapeutic regimen. The major breakthroughs in the 1960s were the introduction of diuretics and beta blockers. Then in the 1980s came the calcium antagonists and converting enzyme inhibitors. It can be anticipated that the next decade will see a further expansion and sophistication of blood pressure lowering drugs. This book provides a state of the art discussion of chemical, experimental and clinical pharmacological data as well as of practical experience with drugs which are presently being used or which are going to be introduced on the market in the near future. The purpose of this volume is to provide a complete discussion of antihypertensive agents. Each major class of antihypertensive drugs is treated exhaustively in a separate chapter, fully referenced with chemical formulae and richly illustrated with figures and tables. International authorities were asked to contribute in their respective fields of expertise.

**Principles and Practice of Sleep Medicine E-Book** Meir H. Kryger, Thomas Roth, William C. Dement, 2015-12-29. For nearly 30 years Dr. Meir Kryger's must-have guide to sleep medicine has been the gold standard in this fast-changing field. This essential full-color reference includes more than 20 unique sections and over 170 chapters covering every aspect of sleep disorders, giving you the authoritative guidance you need to offer your patients the best possible care. Evidence-based content helps you make the most well-informed clinical decisions. An ideal resource for preparing for the sleep medicine fellowship examination. New content on sleep apnea, neurological disorders, legal aspects of sleep medicine, dental sleep

medicine genetics circadian disorders geriatrics women s health cardiovascular diseases and occupational sleep medicine keeps you fully up to date Updates to scientific discoveries and clinical approaches ensure that you remain current with new knowledge that is advancing the diagnosis and management of sleep disorders      **Transmitter Molecules in the Brain** ,2012-12-06 This second volume of Basic and Clinical Aspects of Neuroscience is devoted to the various transmitter systems of the brain classical and neuropeptides In Part I the basic aspects are given including a critical appraisal of the methods used yesterday and today to describe such neurotransmitter systems Part II concentrates on the functioning in the body of these transmitter systems under physiologic and pathologic conditions It goes on to show how neuroendocrine investigations may give insights into the functioning of neurotransmitter systems at least in the hypothalamus to end with a chapter which assesses very critically the errors and deficiencies of the concepts and techniques used in the attempt to understand the functioning of the brain and the mind The editors have been fortunate to have the eight chapters written by a team of investigators working under the direction of Professor G Fink in the MRC Brain Metabolic Unit at Edinburgh University We are grateful to him and his colleagues for their work in writing these chapters and for the fine result they achieved I am grateful for the editorial work done by Professor E E Muller Milan and Professor M O Thorner Charlottesville which made this volume possible Basle May 1987 E Fluckiger Managing Editor Table of Contents Part I Biochemistry of Transmitter Molecules Introduction Role of Chemical Neurotransmission in Brain Function G FINK References 4 Classical Transmitters and Neuromodulators 1 K MCQUEEN Process of Synaptic Transmission 7 Classification of Synaptic Messengers 7 Dale s Principle      **Experimental and Clinical Endocrinology** ,1983      Sleep, Clinical and Experimental Aspects Detlev Ganten,1982-01-01      **El secreto del sueño** Alexander Borbély,1993 Libro rigurosamente científico pero muy accesible y atractivo Profusamente ilustrado nos habla de los tipos de sueños de la idea del sueño desde la Biblia diferencias entre dormir y soñar trastornos del sueño electroencefalogramas somnóforos sonambulismo sueño en los animales etc      *Circadian Clocks* Joseph S. Takahashi,Fred W. Turek,Robert Y. Moore,2012-12-06 The Handbook of Behavioral Neurobiology series deals with the aspects of neurosciences that have the most direct and immediate bearing on behavior It presents the most current research available in the specific areas of sensory modalities This volume explores circadian rhythms      **Sleep Research** ,1997      **Melatonin in Humans** R.J. Wurtman,F. Waldhauser,1986-08-06

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