Information for readers regarding the editorial board

Members of the Editorial Board are nominated by the Editorial Office pending approval by the International Society of Neuroendocrinology. The members are nominated for a period of three years with a third renewed each year. Members may serve up to six years.

Full addresses of Editorial Board members may be obtained from the office of the Editor-in-Chief.

S. Karger
Medical and Scientific Publishers Basel · Freiburg · Paris · London New York · New Delhi · Bangkok Singapore · Tokyo · Sydney

Drug Dosage

The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

All rights reserved. No part of this publication may be translated into other languages, reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, microcopying, or by any information storage and retrieval system, without permission in writing from the publisher or, in the case of photocopying, direct payment of a specified fee to the Copyright Clearance Center (see 'Information for Readers and Subscribers').

© Copyright 1994 by S. Karger AG, P.O. Box, CH-4009 Basel (Switzerland) Printed in Switzerland on acid-free paper by Reinhalt Druck, Basel

Contents Vol. 60, 1994

No. 1

Corticotropic Axis and Adrenal Feedback

Direct Evidence for Chronic Stress-Induced Facilitation of the 1 Adrenocorticotropin Response to a Novel Acute Stressor Marti, O.; Gavaldà, A.; Gómez, F.; Armario, A.

Effects of Intravenous Administration of Interleukin-1-Beta on the Release of Prostaglandin E2, Corticotropin-Releasing Factor, and Arginine Vasopressin in Several Hypothalamic Areas of Freely Moving Rats: Estimation by Push-Pull Perfusion Watanobe, H.; Takebe, K.

In Man the Mu-Opiate Agonist Loperamide Specifically Inhibits ACTH Secretion Induced by the Cholecystokinin-Like Peptide Ceruletide Auernhammer, C.J.; Riepl, R.L.; Sechopohl, J.; Lehnert, P.; Müller, O.A.; Stalla, G.K.

Rapid Increase in Glycerol Phosphate Dehydrogenase mRNA in Adult Rat Brain: A Glucocorticoid-Dependent Stress Response Masters, J.N.; Finch, C.E.; Nichols, N.R.

Corticosterone Effects on Long-Term Potentiation in Mouse Hippocampal Slices Rey, M.; Carlier, E.; Talmi, M.; Soffrondre-Mourat, B.

Gonadotropic Regulation


Regulation of Progesterone Receptors in Raphe Neurons of Steroid-Treated Monkeys Bethea, C.L.

Differential Actions of Phospholipase C on Gonadotropin-
Releasing-Hormone-Stimulated Release and Glycosylation of Luteinizing Hormone in Rat Anterior Pituitary Cells Liu, T.-C.; Pu, H.-F.; Jackson, G.L.

Growth Hormone Regulation

Multiple Opiate Receptor Subtypes Are Involved in the Stimulation of Growth Hormone Release by Beta-Endorphin in Female Rats Janik, J.; Klosterman, S.; Parman, R.; Callahan, P.

Constitutive Growth Hormone Secretion in Sheep after Hypothalamopituitary Disconnection and the Direct in vivo Pituitary Effect of Growth Hormone Releasing Peptide 6 Fletcher, T.P.; Thomas, G.B.; Willemsen, J.O.; Clarke, I.J.

Regulation of Rhythmic Secretion

Expression of Immunoreactive Polysialylated Neural Cell Adhesion Molecule in the Suprachiasmatic Nucleus Glass, J.D.; Lee, W.; Shen, H.; Watanabe, M.

Circadian Rhythms in Reproductive and Thyroid Hormones in Gonadally Regressed Male Hamsters Exposed to Natural Autumn Photoperiod and Temperature Conditions Vaughan, M.K.; Menendez-Pelaez, A.; Buzzell, G.R.; Vaughan, G.M.; Little, J.C.; Reiter, R.J.

Melatonin Is Able to Influence Its Secretion in Humans: Description of a Phase-Response Curve Zaidan, R.; Geoffriau, M.; Brun, J.; Taillard, J.; Bureau, C; Chazot, G.; Claustrat, B.

Corticotropic and Glucocorticoid Feedback

Fast Glucocorticoid Feedback Inhibition of ACTH Secretion in the Ovariectomized Rat: Effect of Chronic Estrogen and Progesterone Redei, E.; Li, L.; Halasz, I.; McGivern, R.F.; Arnd, F.

Endotoxin and Interleukin 1 Decrease the Affinity of Hippocampal Mineralocorticoid (Type I) Receptor in Parallel to Activation of the Hypothalamic-Pituitary-Adrenal Axis Schöbitz, B.; Sutanto, W.; Holsboer, F.; de Kloet, E.R.

Dexamethasone Resistance among Nonhuman Primates Associated with a Selective Decrease of Glucocorticoid Receptors in the Hippocampus and a History of Social Instability Brooke, S.M.; de Haas-Johnson, A.M.; Kaplan, J.R.; Manuck, S.B.; Sapolsky, R.M.

Gonadotropins, Glycoprotein Hormones and Gonadal Feedback

Castration-Induced Decrease in the Activity of Medial Preoptic and Tuberoinfundibular GABAergic Neurons Is Prevented by Testosterone Grattan, D.R.; Selmanoff, M.

Gonadal Steroid Modulation of Vasotocin Concentrations in the Bullfrog Brain Boyd, S.K.

Physiological Significance of Neurotensin in Pituitary Glycoprotein Hormone Release as Revealed by in vivo and in vitro Studies with Neurotensin Antiserum Vijayan, V.; Carraway, R.; Lee, E.; McCann, S.

Suppression of Gonadotropin Secretion in the Hospitalized Postmenopausal Female as an Effect of Acute Critical Illness van Steenbergen, W.; Naert, J.; Lambrecht, S.; Seheys, I.; Lesaffre, E.; Pelemans, W.

Regulation of Pituitary Cells

Effect of Excitatory Amino Acid Receptor Agonists on Secretion of Growth Hormone as Assessed by the Reverse Hemolytic Plaque Assay Niimi, M.; Sato, M.; Murao, K.; Takahara, J.; Kawanishi, K.
Prolactin and Growth Hormone Release and Calcium Influx Are Stimulated by Galanin within a ‘Window’ Range of Concentrations in Pituitary GH3 B6 Cells Drouhault, R.; Guérineau, N.-C.; Mollard, P.; Cadoret, M.-A.; Corcuff, J.-B.; Vacher, A.; Vilayleck, N.

Central Neuroendocrine Processes

Induction of Enkephalin in Tuberoinfundibular Dopaminergic Neurons of Pregnant, Pseudopregnant, Lactating and Aged Female Rats Merchenthaler, I.

Immunocytochemical Mapping of a Novel Dopamine-Releasing Protein in the Rat Brain Choi, W.S.; Lee, B.H.; Ramirez, V.D.

Central Stimulation of Renin Secretion through Serotonergic, 205 Noncardiovascular Mechanisms Rittenhouse, PA.; Bakken, E.A.; Levy, A.D.; Li, Q.; Yracheta, J.M.; Kamimoto, K.; van de Kar, I.D.

Peripheral Endocrine and Metabolic Responses to Centrally Administered Interleukin-1 Stith, R.D.; Templer, L.A.

Corticotropin Regulation and Corticoid Feedback

Short-Term Secretion Patterns of Corticotropin-Releasing Hormone as Shown by Intensive Sampling of Pituitary Venous Blood from Horses Alexander, S.L.; Irvine, C.H.G.; Donald, R.A.

Patterns of ACTH Response to oCRH in Cushing’s Disease: 237 Correlation with Histological Immunocytochemical Findings Boscaro, M.; Rampazzo, A.; Paoletta, A.; Scanarini, M.; Belluardo, P.; Fallo, F.; Sonino, N.

Role of Hypothalamic Histaminergic Neurons in Mediation of ACTH and Beta-Endorphin Responses to LPS Endotoxin in vivo Knigge, U.; Kjær, A.; Jørgensen, H.; Garborg, M.; Ross, C.; Rouleau, A.; Warberg, J.

Influence of the Behaviorally Active Peptides ACTH1-24 and 252 ACTH4.10 on the Melatonin Modulation of Flunitrazepam Receptor Binding in the Rat Cerebral Cortex Gomar, M.D.; Fernandez, B.; del Aguila, C.M.; Castillo, J.L.; de Dios Luna, J.; Acuña Castroviejo, D.

Long- and Short-Term Administration of Corticosterone Alters Hippocampal Neuronal Properties Beck, S.G.; List, T.J.; Choi, K.C.

Gluocorticoids Do Not Affect Intracellular Calcium Transients in Corticotrophs: Evidence Supporting an Effect Distal to Calcium Influx Clark, T.P.; Kemppainen, R.J.

Gonadotropins and Prolactin


Vasopressin Mediates Hypoglycemia-Induced Inhibition of Luteinizing Hormone Secretion in the Ovariectomized Rhesus Monkey Heisler, L.E.; Tumber, A.J.; Reid, R.L.; van Vugt, DA.

Prolactin Gene Expression in Ovine and Caprine Mammary Gland Le Provost, F.; Leroux, C.; Martin, P.; Gaye, P.; Djiane, J.

Decreased Expression of the Two Dopamine Receptor Isoforms in Bromocriptine-Resistant Prolactinomas Caccavelli, L.; Feron, F.; Morange, I.; Rouer, E.; Benarous, R.; Dewailly, D.; Jaquet, P.; Kordon, C.; Enjalbert, A.

Neuropeptide Synthesis and Degradation in the Pituitary
Thyrotropin-Releasing Hormone Downregulates Pyroglutamyl 323 Peptidase II Activity in Adenohypophyseal Cells Vargas, M.A.; Joseph-Bravo, P.; Charli, J.-L.

Repeated Ethanol Differently Affects Opioid Peptide Biosynthesis in the Rat Pituitary Przewlocka, B.; Lasoń, W.; Przewlocki, R.

Contents

No. 4
Clinical Neuroendocrinology

Regulation of Hypothalamic Neurons

Neurokinin B Gene Expression Is Increased in the Arcuate Nucleus of Ovariectomized Rats
Rancé, N.E.; Bruce, T.R.

Developmental Expression of the Genes Encoding Transform-346 ing Growth Factor Alpha and Its Receptor in the Hypothalamus of Female Rhesus Macaques Ma, Y.J.; Costa, M.E.; Ojeda, S.R.

Modulation of Arginine Vasopressin Secretion from Cultured 360 Ovine Hypothalamic Cells by Glucocorticoids and Opioid Peptides Currie, I.S.; Gillies, G.; Brooks, A.N.

Pituitary-Dependent Hormonal Regulation of Galaninergic 368 Neurons in the Rat Hypothalamus Selvais, P.L.; Adam, E.; Colin, I.M.; Kasa-Vubu, J.Z.; Denef, J.-F.; Maiter, D.M.

Pituitary Second Messenger

Calcium Influx through Neuronal-Type Nicotinic Acetylcholine Receptors Present on the Neuroendocrine Cells of the Porcine Pars intermedia Poisbeau, P.; Trouslard, J.; Feltz, P.; Schlichter, R.

Short Applications of Gamma-Aminobutyric Acid Increase Intracellular Calcium Concentrations in Single Identified Rat Lactotrophs Lorsignol, A.; Taupignon, A.; Dufy, B.

Selective Effect of a Diet-Induced Decrease in the Arachidonic 400 Acid Membrane-Phospholipid Content on in vitro Phospholipase C and Adenylate Cyclase-Mediated Pituitary Response to Angiotensin II Alexisio, M.L.M.; Léger, C.L.; Rasolonjanahary, R.; Wandscheer, D.E.; Clauser, H.; Enjalbert, A.; Kordon, C.

Cyclic 3',5'-Adenosine Monophosphate Mediates Dopamine 410 Dl-Stimulated Growth Hormone Release from Goldfish Pituitary Cells Wong, A.O.-L.; van der Kraak, G.; Chang, J.P.

Corticotropins and Neuroimmune Interactions

Systemically Administered Histamine H1 and H2 Receptor Antagonists Do Not Block the ACTH Response to Bacterial Lipopolysaccharide and Interleukin-1 Perlie, R.S.; Mehta, N.R.; Mougey, E.H.; Neta, R.; Whitnall, M.H.

Prostaglandins Mediate the ACTH Response to Interleukin-1 Beta Instilled into the Hypothalamic Median Eminence McCoy, J.G.; Matta, S.G.; Sharpe, B.M.


Characterization of 17ß-Hydroxysteroid Dehydrogenase Activity and mRNA Abundance in Human Meningioma Tumors Carsol, J.-L.; Martin, P.-M.; de Launoit, Y.
Effect of Erythromycin on Pancreatic Polypeptide Release: Role of the Vagal Nerve

No. 5
Editorial

Regulation of Hypothalamic Neurons
Cholecystokinin B Receptor Gene Expression in Hypothalamic Neurosecretory Neurons after Experimental Manipulations Meister, B.; Broberger, C.; Villar, M.J.; Hökfelt, T.
GABA and NMDA Receptor Activation Controls Somatostatin 470 tin Messenger RNA Expression in Primary Cultures of Hypothalamic Neurons Rage, F.; Rougeot, C.; Tapia-Arancibia, L.
Increased Hypothalamic Glutamate Receptors Induced by Water Deprivation Meeker, R.B.; McGinnis, S.; Greenwood, R.S.; Hayward, J.N.
Progesterone Receptor and Neurotensin Are Colocalized in Neurons of the Guinea Pig Ventrolateral Hypothalamus Warembourg, M.; Jolivet, A.

Regulation of Corticotropin Secretion


V
Circadian Rhythmicity
Regulation of Gonadotropins
Circadian Changes of Serum Prolactin Levels and Tubero-infundibular Dopaminergic Neuron Activities in Ovari-ectomized Rats Treated with or without Estrogen: The Role of the Suprachiasmatic Nuclei Mai, L.-M.; Shieh, K.-R.; Pan, J.-T.
Rhythmic Secretion of Melatonin by the Superfused Pike Pineal Organ: Thermo- and Photoperiod Interaction Falk, J.; Bélisle, V.; Ravault, J.P.; Chesneau, D.; Al, M.A.; Collin, J.P.

Clinical Neuroendocrinology
Sleep and Wakefulness Affect the Responsiveness of the Pituitary-Adrenocortical Axis to Arginine Vasopressin in Humans Späh-Schwabe, E.; Uthgenannt, D.; Körting, N.; Felten, H.-L.; Born, J.
Melatonin-Induced Decrease of Body Temperature in Women: 549
Posterior Pituitary
Endothelin-1 Stimulates the in vitro Release of Neuro-
hypophysial Hormones, but Not Corticotropin-Releasing Hormone, via ETA Receptors

Stimulus-Induced Depletion of Pro-Enkephalins, Oxytocin and Vasopressin and Interaction with Posterior Pituitary Hormone Release in vitro
Lang, G; Becknell, R.J.; Brown, D.; Bowden, C; Chapman, C; Russell, J.A.

Anterior Pituitary
The Growth Hormone-Releasing Hormone-Cyclic Adenosine Monophosphate Signal Pathway in Somatotropes Is Practically Intact during Aging Shimokawa, I.; Higami, Y.; Okamoto, T.; Koda, T.
Cyclosporine Modifies the Pulsatile Secretory Patterns of Pro-581 lactin and Luteinizing Hormone in Normal and Pituitary-Grafted Female Rats Esquifino, A.I.; Mars, J.; Lafuente, A.

Differences in Ketanserin Binding in the Ventromedial Hypothalamus of Ewes Responsive or Refractory to Short Days Le Corre, S.; Segu, L.; Caldani, M.; Chemineau, P.

Antagonism of Type II, but Not Type I Glucocorticoid Receptor Results in Elevated Basal Luteinizing Hormone Release in Male Rats Briski, K.P.; Sylvester, P.W.

Neuroimmune Interactions
Sex Differences in the Hypothalamo-Pituitary-Adrenal Axis Response to Inflammatory and Neuroendocrine Stressors. Evidence for a Pituitary Defect in the Autoimmune Disease-Susceptible Female Lewis Rat Spinedi, E.; Salas, M.; Chiarini, A.; Perone, M.; Carino, M.; Gaillard, R.C.

Effect of Elevated Growth Hormone Concentrations on the Phenotype and Functions of Human Lymphocytes and Natural Killer Cells Kotzmann, H.; Köller, M.; Czermpa, S.; Clodi, M.; Svboda, T.; Man, M.; Bolto-Nutulescu, G; Zielinski, C.C.; Luger, A.

Clinical Neuroendocrinology
Decreased Delta-Sleep and Plasma Delta-Sleep Inducing Peptide in Patients with Cushing Syndrome Friedman, T.C.; Garcia-Borreguero, D.; Hardwick, D.; Akuete, C.N.; Doppman, J.L.; Dorn, L.D.; Barker, C.N.; Yanovski, J.A.; Chrousos, G.P.
