

Contents by Category

NEWS & VIEWS

- 443 **Leptin and Resistin: Master Enemy Adipokines Unified in Brain to Control Glucose Homeostasis.** *Remy Burcelin* See article p. 445

BRIEF COMMUNICATIONS

- 455 **Ghrelin Prevents Cisplatin-Induced Mechanical Hyperalgesia and Cachexia.** *José M. Garcia, Juan P. Cata, Patrick M. Dougherty, and Roy G. Smith*

- 461 **Caveolin-1 Down-Regulation Inhibits Insulin-Like Growth Factor-I Receptor Signal Transduction in H9C2 Rat Cardiomyoblasts.** *Barbara Salani, Lucia Briatore, Silvano Garibaldi, Renzo Cordera, and Davide Maggi*

- 466 **One-Cell Zygote Transfer from Diabetic to Nondiabetic Mouse Results in Congenital Malformations and Growth Retardation in Offspring.** *Amanda Wyman, Anil B. Pinto, Rachael Sheridan, and Kelle H. Moley*

- 470 **Maternal Perinatal Undernutrition Drastically Reduces Postnatal Leptin Surge and Affects the Development of Arcuate Nucleus Proopiomelanocortin Neurons in Neonatal Male Rat Pups.** *Fabien Delahaye, Christophe Breton, Pierre-Yves Risold, Mihaela Enache, Isabelle Dutriez-Casteloot, Christine Laborie, Jean Lesage, and Didier Vieau*

CANCER-ONCOGENES

- 565 **Estrogens Promote Human Testicular Germ Cell Cancer through a Membrane-Mediated Activation of Extracellular Regulated Kinase and Protein Kinase A.** *Adil Bouskine, Marielle Nebout, Baharia Mograbi, Françoise Brücker-Davis, Cyril Roger, and Patrick Fenichel*

- 651 **Adrenal Gland Tumorigenesis after Gonadectomy in Mice Is a Complex Genetic Trait Driven by Epistatic Loci.** *Sophie Bernichtein, Enrico Petretto, Stacey Jamieson, Anuj Goel, Timothy J. Aitman, Jonathan M. Mangion, and Ilpo T. Huhtaniemi*

- 793 **Nuclear Exclusion of Forkhead Box O and Elk1 and Activation of Nuclear Factor- κ B Are Required for C2C12-RasV12C40 Myoblast Differentiation.** *Cristina De Alvaro, Iria Nieto-Vazquez, Jose Maria Rojas, and Margarita Lorenzo*

GLUCOCORTICOIDS-CRH-ACTH-ADRENAL

- 681 **Pomc Knockout Mice Have Secondary Hyperaldosteronism Despite an Absence of Adrenocorticotropin.** *Kirsten-Berit Linhart and Joseph A. Majzoub*

- 725 **Nuclear Receptor Coregulators Differentially Modulate Induction and Glucocorticoid Receptor-Mediated Repression of the Corticotropin-Releasing Hormone Gene.** *S. van der Laan, S. B. Lachize, E. Vreugdenhil, E. R. de Kloet, and O. C. Meijer*

- 818 **The Anteroventral Bed Nucleus of the Stria Terminalis Differentially Regulates Hypothalamic-Pituitary-Adrenocortical Axis Responses to Acute and Chronic Stress.** *Dennis C. Choi, Nathan K. Evanson, Amy R. Furay, Yvonne M. Ulrich-Lai, Michelle M. Ostrander, and James P. Herman*

ENERGY BALANCE-OBESITY

- 492 **Divergent Leptin Signaling in Proglucagon Neurons of the Nucleus of the Solitary Tract in Mice and Rats.** *Lihong Huo, Kevin M. Gamber, Harvey J. Grill, and Christian Björbæk*

- 544 **Role of Agouti-Related Protein-Expressing Neurons in Lactation.** *Colin T. Phillips and Richard D. Palmiter*

- 615 **Lou/C Obesity-resistant Rat Exhibits Hyperactivity, Hypermetabolism, Alterations in White Adipose Tissue Cellularity, and Lipid Tissue Profiles.** *Christophe Soulage, Bader Zarrouki, Anisio Francesco Soares, Michel Lagarde, and Alain Geloën*

- 703 **Inhibition of Agouti-Related Peptide Expression by Glucose in a Clonal Hypothalamic Neuronal Cell Line Is Mediated by Glycolysis, Not Oxidative Phosphorylation.** *Hui Cheng, Fumiko Isoda, Denise D. Belsham, and Charles V. Mobbs*

- 733 **Oral Supplementation with Physiological Doses of Leptin During Lactation in Rats Improves Insulin Sensitivity and Affects Food Preferences Later in Life.** *Juana Sánchez, Teresa Priego, Mariona Palou, Aixa Tobaruela, Andreu Palou, and Catalina Picó*

ENDOCRINOLOGY (ISSN 0013-7227; IPM 0059668) is the official journal of The Endocrine Society and is published monthly by The Endocrine Society, 8401 Connecticut Avenue, Suite 900, Chevy Chase, MD 20815-5817. Periodicals postage paid at Chevy Chase, MD and at additional mailing offices. Subscription rates are \$447 (\$617 international); institutions \$967 (\$1,190 international); institutions on-line only \$869 (U.S. and international); in training \$258 (\$401 international); single copy \$63 (\$76 international). Society member dues of \$266 (\$334 international) includes print and online access to one primary journal and online access to an additional two primary journals. Subscription prices subject to change. All subscriptions start with the January issue. To order call (301) 941-0210. All subscription orders for customers in Japan must be placed through our exclusive agent, USACO Corporation, 17-12, Higashi-Azabu 1-chome, Minatu-ku, Tokyo 105, Japan. Telephone 03-3505-6161. Please contact USACO for 2008 yen rates. Printed in the U.S.A. POSTMASTER: Send address changes to *Endocrinology*, 8401 Connecticut Avenue, Suite 900, Chevy Chase, MD 20815-5817. Indexed by BIOSIS, Current Contents, Index Medicus, Elsevier BIOBASE / Current Awareness in Biological Sciences, National Biological Service, EMBASE / Excerpta Medica, and Sociedad Iberoamericana de Información Científica (SIIC). Printed on acid-free paper. Table of Contents and abstracts for each issue available on the issue mail date on The Endocrine Society Home Page at <http://endo.endojournals.org>. Copyright © 2008 by The Endocrine Society.

Contents continued on page 6A

GENERAL ENDOCRINOLOGY

- 476 **Endogenous Relaxin Does Not Affect Chronic Pressure Overload-Induced Cardiac Hypertrophy and Fibrosis.** Qi Xu, Edna D. Lekgabe, Xiao-Ming Gao, Ziqiu Ming, Geoffrey W. Tregear, Anthony M. Dart, Ross A. D. Bathgate, Chrishan S. Samuel, and Xiao-Jun Du
- 672 **Mechanisms of Glucose-Induced Expression of Pancreatic-Derived Factor in Pancreatic β -Cells.** Oumei Wang, Kun Cai, Shanshan Pang, Ting Wang, Dongfei Qi, Quanfeng Zhu, Zimei Ni, and Yingying Le
- 711 **Estrogen-Enhanced Gene Expression of Lipoprotein Lipase in Heart Is Antagonized by Progesterone.** Dianxin Liu, Anne Deschamps, Kenneth S. Korach, and Elizabeth Murphy
- 783 **3',5'-Cyclic Adenosine 5'-Monophosphate Response Element-Dependent Transcriptional Regulation of the Secretogranin II Gene Promoter Depends on Gonadotropin-Releasing Hormone-Induced Mitogen-Activated Protein Kinase Activation and the Transactivator Activating Transcription Factor 3.** Jianjun Xie and Mark S. Roberson

GROWTH HORMONE-SOMATOSTATIN-GRH

- 580 **Rescue of Pituitary Function in a Mouse Model of Isolated Growth Hormone Deficiency Type II by RNA Interference.** Nikki Shariat, Robin C. C. Rytter, John A. Phillips III, Iain C. A. F. Robinson, and James G. Patton

GROWTH FACTORS-CYTOKINES

- 506 **Ablation of Leptin Signaling Disrupts the Establishment, Development, and Maintenance of Endometriosis-Like Lesions in a Murine Model.** Aaron K. Styer, Brian T. Sullivan, Mark Puder, Danielle Arsenault, John C. Petrozza, Takehiro Serikawa, Sung Chang, Tayyaba Hasan, Ruben R. Gonzalez, and Bo R. Rueda
- 515 **Cell Lineage-Specific Signaling of Insulin and Insulin-Like Growth Factor I in Rabbit Blastocysts.** Anne Navarrete Santos, Nicole Ramin, Sarah Tonack, and Bernd Fischer
- 551 **Selective Estrogen Receptor Modulators Accelerate Cutaneous Wound Healing in Ovariectomized Female Mice.** Matthew J. Hardman, Elaine Emmerson, Laura Campbell, and Gillian S. Ashcroft
- 843 **Characterization of Adult Ghrelin and Ghrelin Receptor Knockout Mice under Positive and Negative Energy Balance.** Yuxiang Sun, Nancy F. Butte, Jose M. Garcia, and Roy G. Smith

DIABETES-INSULIN-GLUCAGON-GASTROINTESTINAL

- 445 **Long-Term Effects of Central Leptin and Resistin on Body Weight, Insulin Resistance, and β -Cell Function and Mass by the Modulation of Hypothalamic Leptin and Insulin Signaling.** Sunmin Park, Sang Mee Hong, So Ra Sung, and Hye Kyung Jung See editorial p. 443

- 605 **Cytosolic Protein Tyrosine Phosphatase- ϵ Is a Negative Regulator of Insulin Signaling in Skeletal Muscle.** Shlomit Aga-Mizrachi, Tamar Brutman-Barazani, Avraham I. Jacob, Asia Bak, Ari Elson, and Sanford R. Sampson
- 642 **Impact of Transgenic Overexpression of SH2-Containing Inositol 5'-Phosphatase 2 on Glucose Metabolism and Insulin Signaling in Mice.** Syota Kagawa, Yoshiyuki Soeda, Hajime Ishihara, Takeshi Oya, Masakiyo Sasahara, Saori Yaguchi, Ryo Oshita, Tsutomu Wada, Hiroshi Tsuneki, and Toshiyasu Sasaoka
- 662 **Peroxisome Proliferator-Activated Receptor- α Regulates the Expression of Pancreatic/Duodenal Homeobox-1 in Rat Insulinoma (INS-1) Cells and Ameliorates Glucose-Induced Insulin Secretion Impaired by Palmitate.** Ying Sun, Li Zhang, Harvest F. Gu, Wenxia Han, Meng Ren, Furong Wang, Bendi Gong, Laicheng Wang, Hua Guo, Wei Xin, Jiajun Zhao, and Ling Gao
- 717 **Na⁺-Glucose Transporter-2 Messenger Ribonucleic Acid Expression in Kidney of Diabetic Rats Correlates with Glycemic Levels: Involvement of Hepatocyte Nuclear Factor-1 α Expression and Activity.** H. S. Freitas, G. F. Anhê, K. F. S. Melo, M. M. Okamoto, M. Olivetra-Souza, S. Bordin, and U. F. Machado

- 741 **Diminished Phosphodiesterase-8B Potentiates Biphasic Insulin Response to Glucose.** Avital Dov, Eva Abramovitch, Nasim Warwar, and Rafael Neshet
- 758 **Effect of Dexamethasone on Glucose Tolerance and Fat Metabolism in a Diet-Induced Obesity Mouse Model.** John S. Gounarides, Marion Korach-André, Karen Killary, Gregory Argentieri, Oliver Turner, and Didier Laurent

NEUROENDOCRINOLOGY

- 498 **Control of Gastric Acid Secretion in Somatostatin Receptor 2 Deficient Mice: Shift from Endocrine/Paracrine to Neurocrine Pathways.** Chun-Mei Zhao, Vicente Martinez, Laura Piqueras, Lixin Wang, Yvette Taché, and Duan Chen
- 525 **Hexose-6-Phosphate Dehydrogenase and 11 β -Hydroxysteroid Dehydrogenase-1 Tissue Distribution in the Rat.** Elise P. Gomez-Sanchez, Damian G. Romero, Angela F. de Rodriguez, Mary P. Warden, Zygmunt Krozowski, and Celso E. Gomez-Sanchez
- 587 **Activation of Neuronal Nitric Oxide Release Inhibits Spontaneous Firing in Adult Gonadotropin-Releasing Hormone Neurons: A Possible Local Synchronizing Signal.** Jérôme Clasadonte, Pierre Poulain, Jean-Claude Beauvillain, and Vincent Prevot
- 597 **Gonadotropin-Releasing Hormone Neuron Requirements for Puberty, Ovulation, and Fertility.** Allan E. Herbison, Robert Porteous, Jean-Rémi Pape, Jocelyn M. Mora, and Peter R. Hurst
- 687 **Human Prolactin Gene Promoter Regulation by Estrogen: Convergence with Tumor Necrosis Factor- α Signaling.** A. D. Adamson, S. Friedrichsen, S. Semprini, C. V. Harper, J. J. Mullins, M. R. H. White, and J. R. E. Davis

Contents continued on page 7A

749 **Proteolytic Cleavage of Human Chromogranin A Containing Naturally Occurring Catestatin Variants: Differential Processing at Catestatin Region by Plasmin.** Nilima Biswas, Sucheta M. Vaingankar, Manjula Mahata, Madhusudan Das, Jiaur R. Gayen, Laurent Taupenot, Justin W. Torpey, Daniel T. O'Connor, and Sushil K. Mahata

767 **Insight into the Neuroendocrine Site and Cellular Mechanism by which Cortisol Suppresses Pituitary Responsiveness to Gonadotropin-Releasing Hormone.** Kellie M. Breen, Tracy L. Davis, Lisa C. Doro, Terry M. Nett, Amy E. Oakley, Vasantha Padmanabhan, Louisa A. Rispoli, Elizabeth R. Wagenmaker, and Fred J. Karsch

774 **17 β -Estradiol at Physiological Concentrations Augments Ca²⁺-Activated K⁺ Currents via Estrogen Receptor β in the Gonadotropin-Releasing Hormone Neuronal Cell Line GT1-7.** Ichiro Nishimura, Kumiko Ui-Tei, Kaoru Saigo, Hirotaka Ishii, Yasuo Sakuma, and Masakatsu Kato

802 **Gonadal Steroid Hormones Maintain the Stress-Induced Acetylcholine Release in the Hippocampus: Simultaneous Measurements of the Extracellular Acetylcholine and Serum Corticosterone Levels in the Same Subjects.** Dai Mitsushima, Kenkichi Takase, Toshiya Funabashi, and Fukuko Kimura

827 **Ghrelin Treatment of Chronic Kidney Disease: Improvements in Lean Body Mass and Cytokine Profile.** Mark D. DeBoer, Xinxia Zhu, Peter R. Levasseur, Akio Inui, Zhaoyong Hu, Guofeng Han, William E. Mitch, John E. Taylor, Heather A. Halem, Jesse Z. Dong, Rakesh Datta, Michael D. Culler, and Daniel L. Marks

836 **Selective Oxytocin Receptor Activation in the Ventrolateral Portion of the Ventromedial Hypothalamus Is Required for Mating-Induced Pseudopregnancy in the Female Rat.** Lesley E. Northrop and Mary S. Erskine

CALCIUM REGULATING HORMONES

558 **Functional Vitamin D Receptor (VDR) in the T-Tubules of Cardiac Myocytes: VDR Knockout Cardiomyocyte Contractility.** Daniel X. Tishkoff, Karl A. Nibbelink, Kristina H. Holmberg, Loredana Dandu, and Robert U. Simpson

574 **The Murine Glucagon-Like Peptide-1 Receptor Is Essential for Control of Bone Resorption.** Chizumi Yamada, Yuichiro Yamada, Katsushi Tsukiyama, Kotaro Yamada, Nobuyuki Udagawa, Naoyuki Takahashi, Kiyoshi Tanaka, Daniel J. Drucker, Yutaka Seino, and Nobuya Inagaki

634 **Life-Long Caloric Restriction Reveals Biphasic and Dimorphic Effects on Bone Metabolism in Rodents.** Sawako Tatsumi, Masako Ito, Yutaro Asaba, Kumi Tsutsumi, and Kyoji Ikeda

RENAL-CARDIAC-VASCULAR

483 **Therapeutic Potential of Atrial Natriuretic Peptide Administration on Peripheral Arterial Diseases.** Kwijun Park, Hiroshi Itoh, Kenichi Yamahara, Masakatsu Sone, Kazutoshi Miyashita, Naofumi Oyamada, Naoya Sawada, Daisuke Taura, Megumi Inuzuka, Takuhiro Sonoyama, Hirokazu Tsujimoto, Yasutomo Fukunaga, Naohisa Tamura, and Kazuwa Nakao

REPRODUCTION-DEVELOPMENT

534 **Progesterone Receptor Membrane Component-1 (PGRMC1) Is the Mediator of Progesterone's Antiapoptotic Action in Spontaneously Immortalized Granulosa Cells As Revealed by PGRMC1 Small Interfering Ribonucleic Acid Treatment and Functional Analysis of PGRMC1 Mutations.** John J. Peluso, Jonathan Romak, and Xiufang Liu

626 **Expression and Biological Activity of Parathyroid Hormone-Related Peptide in Pregnant Rat Uterine Artery: Any Role for 8-Iso-Prostaglandin F_{2 α} ?** Ferhat Meziati, Angela Tesse, Sandra Welsch, Hélène Kremer, Mariette Barthelmebs, Ramaroson Andriantsitohaina, Francis Schneider, and Alexis Gairard

812 **Phosphorylation of Bone Morphogenetic Protein-15 and Growth and Differentiation Factor-9 Plays a Critical Role in Determining Agonistic or Antagonistic Functions.** Heather E. McMahon, Shweta Sharma, and Shunichi Shimasaki

851 **Inhibition of Thromboxane A Synthase Activity Enhances Steroidogenesis and Steroidogenic Acute Regulatory Gene Expression in MA-10 Mouse Leydig Cells.** XingJia Wang, Xiangling Yin, Randolph B. Schiffer, Steven R. King, Douglas M. Stocco, and Paula Grammas

THYROID-TRH-TSH

695 **Activation of Thyroid Hormone Is Transcriptionally Regulated by Epidermal Growth Factor in Human Placenta-Derived JEG3 Cells.** Gianluca Canettieri, Antonella Franchi, Michele Della Guardia, Ianessa Morante, Maria Giulia Santaguida, John W. Harney, P. Reed Larsen, and Marco Centanni

ANNOUNCEMENTS

1A **FASEB Summer Research Conference**

469 **12th Annual Society for Behavioral Neuroendocrinology Meeting**

491 **2nd Annual International Adrenal Cancer Symposium**

573 **International Symposium on Signal Transduction in Health and Disease**

641 **The American Neuroendocrine Society Neuroendocrine Workshop**

RESEARCH RESOURCES

858 **Endocrine-Related Resources from the National Institutes of Health**

Contents continued on page 8A

862 **National Hormone & Peptide Program (NHPP):
New Recombinant Hormones, Hypothalamic
Peptides, Natural Hormones, New Antisera, &
Expanded Hormone Assay Services Available**

3A **Affirmation of Originality and Assignment of
Copyright**

4A **Editorial Board**

THE ENDOCRINE SOCIETY

2A **Author and Subscription Information**

865 **Employment Opportunities**

COVER: The figure shows an immunofluorescent image of PDX-1 and insulin in INS-1 β -cells treated with fenofibrate and palmitate for 48 h. Location of PDX-1 (*red*) was in the nucleus and cytoplasm, abundantly in the nucleus. Location of insulin (*green*) was in the cytoplasm. Cell nuclei were stained by 4',6-diamidino-2-phenylindole (DAPI) in blue. The figure is the merged image after superposition of the green, red, and blue channels. From the article by Sun *et al.*, in this issue, pages 662–671.

INDEX OF ADVERTISERS

ALPCO, Inc. Cover 4

Indevus Pharmaceuticals, Inc. After 8A

Research Diets, Inc. Cover 2 & 1A