IN THIS ISSUE

563 In This Issue of Diabetes

COMMENTARIES

565 Circulating MicroRNAs to Predict the Risk for Metabolic Diseases in the General Population?
M.-E. Dumas and C. Emanueli

568 Is Estradiol a Biomarker of Type 2 Diabetes Risk in Postmenopausal Women?
F. Mauvais-Jarvis

571 Targeting the Gut Microbiota–FXR Signaling Axis for Glycemic Control: Does a Dietary Supplement Work Magic?
S.-L. Shyng

574 Preserving Cognition in Children With Diabetes: Do Alterations in Functional Network Connectivity Play a Role?
E. van Duinkerken and C.M. Ryan

METABOLISM

577 Associations of Steroid Sex Hormones and Sex Hormone–Binding Globulin With the Risk of Type 2 Diabetes in Women: A Population-Based Cohort Study and Meta-analysis

587 Brain GLUT4 Knockout Mice Have Impaired Glucose Tolerance, Decreased Insulin Sensitivity, and Impaired Hypoglycemic Counterregulation

598 Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK

613 An Intestinal Farnesoid X Receptor–Ceramide Signaling Axis Modulates Hepatic Gluconeogenesis in Mice

627 Age-Dependent Control of Energy Homeostasis by Brown Adipose Tissue in Progeny Subjected to Maternal Diet–Induced Fetal Programming

640 Deletion of ATF4 in AgRP Neurons Promotes Fat Loss Mainly via Increasing Energy Expenditure
J. Deng, F. Yuan, Y. Guo, Y. Xiao, Y. Niu, Y. Deng, X. Han, Y. Guan, S. Chen, and F. Guo

651 Insulin and Glucose Alter Death-Associated Protein Kinase 3 (DAPK3) DNA Methylation in Human Skeletal Muscle

663 Ire1α in Pomc Neurons Is Required for Thermogenesis and Glycemia

OBESITY STUDIES

689 Aberrant Expression of FBXO2 Disrupts Glucose Homeostasis Through Ubiquitin-Mediated Degradation of Insulin Receptor in Obese Mice
B. Liu, H. Lu, D. Li, X. Xiong, L. Gao, Z. Wu, and Y. Lu

ISLET STUDIES

699 Endogenous a2A-Adrenoceptor–Operated Sympathoadrenergic Tones Attenuate Insulin Secretion via cAMP/TRPM2 Signaling

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Interferon-γ Limits Diabetogenic CD8+ T-Cell Effector Responses in Type 1 Diabetes

Islet-Derived CD4 T Cells Targeting Proinsulin in Human Autoimmune Diabetes

An Increased Diagnostic Sensitivity of Truncated GAD65 Autoantibodies in Type 1 Diabetes May Be Related to HLA-DQ8

Chaperone-Driven Degradation of a Misfolded Proinsulin Mutant in Parallel With Restoration of Wild-Type Insulin Secretion
C.N. Cunningham, K. He, A. Arunagiri, A.W. Paton, J.C. Paton, P. Arvan, and B. Tsai

Compensatory Hyperconnectivity in Developing Brains of Young Children With Type 1 Diabetes

Glomerular Endothelial Mitochondrial Dysfunction Is Essential and Characteristic of Diabetic Kidney Disease Susceptibility

Placental and Cord Blood Methylation of Genes Involved in Energy Homeostasis: Association With Fetal Growth and Neonatal Body Composition
M. Díaz, C. García, G. Sebastiani, F. de Zegher, A. López-Bermejo, and L. Ibáñez

Statement of Retraction. Tub Has a Key Role in Insulin and Leptin Signaling and Action In Vivo in Hypothalamic Nuclei. Diabetes 2013;62:137–148. DOI: 10.2337/db11-1388

Statement of Retraction. A Central Role for Neuronal AMP-Activated Protein Kinase (AMPK) and Mammalian Target of Rapamycin (mTOR) in High-Protein Diet–Induced Weight Loss. Diabetes 2008;57:594–605. DOI: 10.2337/db07-0573

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On the cover: Scanning electron micrograph of a glomerulus from a 3-week diabetic mouse depicting glomerular open capillaries and podocytes. Images were taken by Dr. Kerstin Ebefors, Department of Molecular and Clinical Medicine/Nephrology, Institute of Medicine, University of Gothenburg, Gothenburg, Sweden. See the article, “Glomerular Endothelial Mitochondrial Dysfunction Is Essential and Characteristic of Diabetic Kidney Disease Susceptibility,” by Qi et al., which appears in this issue of Diabetes (p. 763).