IN THIS ISSUE

1167 In This Issue of Diabetes

EDITORS’ COMMENTARY

1169 Time to Look Back and to Look Forward

COMMENTARIES

1171 Effects of Roux-en-Y Gastric Bypass on β-Cell Function
R. Weiss

1174 Incretin Therapy and Pancreatic Pathologies: Background Pathology Versus Drug-Induced Pathology in Rats
J.M. Egan and C.W. Chia

1179 Tipping the Balance in Metabolic Regulation: Regulating Regulatory T Cells by Costimulation
L. Qi

1182 Tissue-Specific Expression of GLP1R in Mice: Is the Problem of Antibody Nonspecificity Solved?
A. Aroor and R. Nistala

1185 Diabetes Gets on the Nerves of the Bone Marrow Niche
A. Leri and M. Rota

1188 Using Oral Challenge Testing to Assess Insulin Action and Secretion With Mathematical Modeling
M.A. Staten and D.E. Kelley

1191 Deoxysphingolipids: β-Cell, Beware of These New Kids on the Block
A. Kowluru

1194 Glycogen Synthase Kinase-3β and Cathepsin B in Diabetic Endothelial Progenitor Cell Dysfunction: An Old Player Finds a New Partner
R. Muniyappa and J.R. Sowers

1198 Betatrophin Versus Bitter-Trophin and the Elephant in the Room: Time for a New Normal in β-Cell Regeneration Research
A.F. Stewart

1200 A Radical Concept on Caveolae and Endothelial Dysfunction in Coronary Microvascular Disease in Diabetes
E.J. Henriksen

METHODOLOGY REVIEW

1203 The Oral Minimal Model Method
C. Cobelli, C. Dalla Man, G. Toffolo, R. Basu, A. Vella, and R. Rizza

METABOLISM

1214 Limited Recovery of β-Cell Function After Gastric Bypass Despite Clinical Diabetes Remission

1224 Identification and Characterization of GLP-1 Receptor-Expressing Cells Using a New Transgenic Mouse Model

1234 Hypothalamic Nesfatin-1/NUCB2 Knockdown Augments Hepatic Gluconeogenesis That Is Correlated With Inhibition of mTOR-STAT3 Signaling Pathway in Rats
D. Wu, M. Yang, Y. Chen, Y. Jia, Z.A. Ma, G. Boden, L. Li, and G. Yang

1248 Additive Effects of MicroRNAs and Transcription Factors on CCL2 Production in Human White Adipose Tissue
A. Kulyté, Y. Belarbi, S. Lorente-Cebrián, C. Bambace, E. Arner, C.O. Daub, P. Hedén, M. Rydén, N. Mejhert, and P. Arner

OBESITY STUDIES

1259 Regulation of Hypothalamic Neuronal Sensing and Food Intake by Ketone Bodies and Fatty Acids
C. Le Foll, A.A. Dunn-Meynell, H.M. Mizioriko, and B.E. Levin

ISLET STUDIES

1283 Elevated Mouse Hepatic Betatrophin Expression Does Not Increase Human β-Cell Replication in the Transplant Setting
Y. Jiao, J. Le Lay, M. Yu, A. Naji, and K.H. Kaestner

IMMUNOLOGY AND TRANSPLANTATION

1289 T-Cell Costimulation Protects Obesity-Induced Adipose Inflammation and Insulin Resistance
**PATHOPHYSIOLOGY**

1303 Occurrence of Spontaneous Pancreatic Lesions in Normal and Diabetic Rats: A Potential Confounding Factor in the Nonclinical Assessment of GLP-1-Based Therapies

1315 KCNQ1 Long QT Syndrome Patients Have Hyperinsulinemia and Symptomatic Hypoglycemia
S.S. Torekov, E. Iepsen, M. Christiansen, A. Linneberg, O. Pedersen, J.J. Holst, J.K. Kanters, and T. Hansen

1326 Deoxysphingolipids, Novel Biomarkers for Type 2 Diabetes, Are Cytotoxic for Insulin-Producing Cells

1340 Otopetrin 1 Protects Mice From Obesity-Associated Metabolic Dysfunction Through Attenuating Adipose Tissue Inflammation

**COMPLICATIONS**

1353 Diabetes Causes Bone Marrow Autonomic Neuropathy and Impairs Stem Cell Mobilization via Dysregulated p66Shc and Sirt1

1366 Rap1 Ameliorates Renal Tubular Injury in Diabetic Nephropathy

1381 Peroxynitrite Disrupts Endothelial Caveolae Leading to eNOS Uncoupling and Diminished Flow-Mediated Dilatation in Coronary Arterioles of Diabetic Patients

**PHARMACOLOGY AND THERAPEUTICS**

1394 Identification of a Small Molecular Insulin Receptor Agonist With Potent Antidiabetes Activity

1410 Glycogen Synthase Kinase-3β Inhibition Augments Diabetic Endothelial Progenitor Cell Abundance and Functionality via Cathepsin B: A Novel Therapeutic Opportunity for Arterial Repair

1422 GLP-1/Glucagon Coagonism Restores Leptin Responsiveness in Obese Mice Chronically Maintained on an Obesogenic Diet

**ERRATUM**

1428 Flavonoid Apigenin Is an Inhibitor of the NAD⁺ase CD38: Implications for Cellular NAD⁺ Metabolism, Protein Acetylation, and Treatment of Metabolic Syndrome.
Diabetes 2013;62:1084–1093
C. Escande, V. Nin, N.L. Price, V. Capellini, A.P. Gomes, M.T. Barbosa, L. O’Neil, T.A. White, D.A. Sinclair, and E.N. Chini

**ISSUES AND EVENTS**

1429 Issues and Events

e1 Comment on Boden et al. Insulin Regulates the Unfolded Protein Response in Human Adipose Tissue. Diabetes 2014;63:912–922
S. Lieske and A.L. Birkenfeld

e2 Response to Comment on Boden et al. Insulin Regulates the Unfolded Protein Response in Human Adipose Tissue. Diabetes 2014;63:912–922

e3 Comment on Dutia et al. Limited Recovery of β-Cell Function After Gastric Bypass Despite Clinical Diabetes Remission. Diabetes 2014;63:1214–1223
A.E. Pontiroli

e4 Response to Comment on Dutia et al. Limited Recovery of β-Cell Function After Gastric Bypass Despite Clinical Diabetes Remission. Diabetes 2014;63:1214–1223