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- 1767** Pharmacological Targeting of the Atherogenic Dyslipidemia Complex: The Next Frontier in CVD Prevention Beyond Lowering LDL Cholesterol
C. Xiao, S. Dash, C. Morgantini, R.A. Hegele, and G.F. Lewis
- 1779** Illuminating the Effects of Stroke on the Diabetic Brain: Insights From Imaging Neural and Vascular Networks in Experimental Animal Models
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This section features three articles from the 3rd *Diabetes* Symposium held in conjunction with the ADA's 76th Scientific Sessions in New Orleans, LA, 10–14 June 2016.

- 1800** De Novo Lipogenesis Products and Endogenous Lipokines
M. Yilmaz, K.C. Claiborn, and G.S. Hotamisligil
- 1808** GLUT4 Expression in Adipocytes Regulates De Novo Lipogenesis and Levels of a Novel Class of Lipids With Antidiabetic and Anti-inflammatory Effects
P.M. Moraes-Vieira, A. Saghatelian, and B.B. Kahn
- 1816** RNA Regulation of Lipotoxicity and Metabolic Stress
G. Caputa and J.E. Schaffer

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- 1824** Early Low-Fat Diet Enriched With Linolenic Acid Reduces Liver Endocannabinoid Tone and Improves Late Glycemic Control After a High-Fat Diet Challenge in Mice
L. Demizieux, F. Piscitelli, S. Troy-Fioramonti, F.A. Iannotti, S. Borrino, J. Gresti, T. Muller, J. Bellenger, C. Silvestri, V. Di Marzo, and P. Degrace
- 1838** Dual Actions of Apolipoprotein A-I on Glucose-Stimulated Insulin Secretion and Insulin-Independent Peripheral Tissue Glucose Uptake Lead to Increased Heart and Skeletal Muscle Glucose Disposal
J. Domingo-Espín, M. Lindahl, O. Nilsson-Wolanin, S.W. Cushman, K.G. Stenkula, and J.O. Lagerstedt
- 1849** Variants in Genes Controlling Oxidative Metabolism Contribute to Lower Hepatic ATP Independent of Liver Fat Content in Type 1 Diabetes
S. Gancheva, A. Bierwagen, K. Kaul, C. Herder, P. Nowotny, S. Kahl, G. Giani, B. Klueppelholz, B. Knebel, P. Begovatz, K. Strassburger, H. Al-Hasani, J. Lundbom, J. Szendroedi, and M. Roden, for the German Diabetes Study (GDS) Group
- 1858** Fasting Plasma Insulin Concentrations Are Associated With Changes in Hepatic Fatty Acid Synthesis and Partitioning Prior to Changes in Liver Fat Content in Healthy Adults
C. Pramfalk, M. Pavlides, R. Banerjee, C.A. McNeil, S. Neubauer, F. Karpe, and L. Hodson
- 1868** Prmt7 Deficiency Causes Reduced Skeletal Muscle Oxidative Metabolism and Age-Related Obesity
H.-J. Jeong, H.-J. Lee, T.A. Vuong, K.-S. Choi, D. Choi, S.-H. Koo, S.C. Cho, H. Cho, and J.-S. Kang
- 1883** Genetic and Pharmacological Inhibition of Malonyl CoA Decarboxylase Does Not Exacerbate Age-Related Insulin Resistance in Mice
J.R. Ussher, N. Fillmore, W. Keung, L. Zhang, J. Mori, V.K. Sidhu, A. Fukushima, K. Gopal, D.G. Lopaschuk, C.S. Wagg, J.S. Jaswal, J.R.B. Dyck, and G.D. Lopaschuk

SIGNAL TRANSDUCTION

- 1892** Brain Insulin Signaling Is Increased in Insulin-Resistant States and Decreases in FOXOs and PGC-1 α and Increases in A β _{1–40/42} and Phospho-Tau May Abet Alzheimer Development
M. Sajjan, B. Hansen, R. Ivey III, J. Sajjan, C. Ari, S. Song, U. Braun, M. Leitges, M. Farese-Higgs, and R.V. Farese

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Companion Article

1904 Hepatic ATF6 Increases Fatty Acid Oxidation to Attenuate Hepatic Steatosis in Mice Through Peroxisome Proliferator-Activated Receptor α
X. Chen, F. Zhang, Q. Gong, A. Cui, S. Zhuo, Z. Hu, Y. Han, J. Gao, Y. Sun, Z. Liu, Z. Yang, Y. Le, X. Gao, L.Q. Dong, X. Gao, and Y. Li

1916 Tumor Necrosis Factor/Sphingosine-1-Phosphate Signaling Augments Resistance Artery Myogenic Tone in Diabetes
M. Sauv e, S.K. Hui, D.D. Dinh, W.D. Foltz, A. Momen, S.A. Nedospasov, S. Offermanns, M. Husain, J.T. Kroetsch, D. Lidington, and S.-S. Bolz

OBESITY STUDIES

1929 Altered Brain Response to Drinking Glucose and Fructose in Obese Adolescents
A.M. Jastreboff, R. Sinha, J. Arora, C. Giannini, J. Kubat, S. Malik, M.A. Van Name, N. Santoro, M. Savoye, E.J. Duran, B. Pierpont, G. Cline, R.T. Constable, R.S. Sherwin, and S. Caprio

ISLET STUDIES

1940 Amelioration of Diabetes by Protein S
T. Yasuma, Y. Yano, C.N. D'Alessandro-Gabazza, M. Toda, P. Gil-Bernabe, T. Kobayashi, K. Nishihama, J.A. Hinneh, R. Mifuji-Moroka, Z. Roen, J. Morser, I. Cann, I. Motoh, Y. Takei, and E.C. Gabazza

1952 Increased Expression of the Diabetes Gene *SOX4* Reduces Insulin Secretion by Impaired Fusion Pore Expansion
S.C. Collins, H.W. Do, B. Hastoy, A. Hugill, J. Adam, M.V. Chibalina, J. Galvanovskis, M. Godazgar, S. Lee, M. Goldsworthy, A. Salehi, A.I. Tarasov, A.H. Rosengren, R. Cox, and P. Rorsman

1962 Synaptotagmin-7 Functions to Replenish Insulin Granules for Exocytosis in Human Islet β -Cells
S. Dolai, L. Xie, D. Zhu, T. Liang, T. Qin, H. Xie, Y. Kang, E.R. Chapman, and H.Y. Gaisano

IMMUNOLOGY AND TRANSPLANTATION

1977 B-Lymphocytes Expressing an Ig Specificity Recognizing the Pancreatic β -Cell Autoantigen Peripherin Are Potent Contributors to Type 1 Diabetes Development in NOD Mice
C.M. Leeth, J. Racine, H.D. Chapman, B. Arpa, J. Carrillo, J. Carrascal, Q. Wang, J. Ratiu, L. Egia-Mendikute, E. Rosell-Mases, T. Stratmann, J. Verdaguer, and D.V. Serreze

PATHOPHYSIOLOGY

1988 Growth and Risk for Islet Autoimmunity and Progression to Type 1 Diabetes in Early Childhood: The Environmental Determinants of Diabetes in the Young Study
H. Elding Larsson, K. Vehik, M.J. Haller, X. Liu, B. Akolkar, W. Hagopian, J. Krischer,  . Lernmark, J.-X. She, O. Simell, J. Toppari, A.-G. Ziegler, and M. Rewers, for the TEDDY Study Group

1996 Endothelial Fc γ Receptor IIB Activation Blunts Insulin Delivery to Skeletal Muscle to Cause Insulin Resistance in Mice
K. Tanigaki, K.L. Chambliss, I.S. Yuhanna, A. Sacharidou, M. Ahmed, D.N. Atochin, P.L. Huang, P.W. Shaul, and C. Mineo

COMPLICATIONS

2006 Mast Cells Regulate Wound Healing in Diabetes
A. Tellechea, E.C. Leal, A. Kafanas, M.E. Auster, S. Kuchibhotla, Y. Ostrovsky, F. Tecilazich, D. Baltzis, Y. Zheng, E. Carvalho, J.M. Zabolotny, Z. Weng, A. Petra, A. Patel, S. Panagiotidou, L. Pradhan-Nabzdyk, T.C. Theoharides, and A. Veves

2020 microRNA-182 Mediates Sirt1-Induced Diabetic Corneal Nerve Regeneration
Y. Wang, X. Zhao, X. Wu, Y. Dai, P. Chen, and L. Xie

PHARMACOLOGY AND THERAPEUTICS

2032 Empagliflozin, via Switching Metabolism Toward Lipid Utilization, Moderately Increases LDL Cholesterol Levels Through Reduced LDL Catabolism
F. Briand, E. Mayoux, E. Brousseau, N. Burr, I. Urbain, C. Costard, M. Mark, and T. Sulpice

GENETICS/GENOMES/PROTEOMICS/METABOLOMICS

2039 Metabolic Networks and Metabolites Underlie Associations Between Maternal Glucose During Pregnancy and Newborn Size at Birth
D.M. Scholtens, J.R. Bain, A.C. Reisetter, M.J. Muehlbauer, M. Nodzinski, R.D. Stevens, O. Ilkayeva, L.P. Lowe, B.E. Metzger, C.B. Newgard, and W.L. Lowe Jr., for the HAPO Study Cooperative Research Group

2051 Discovery of a Genetic Metabolic Cause for Mauriac Syndrome in Type 1 Diabetes
M.J. MacDonald, N.M. Hasan, I.-u.H. Ansari, M.J. Longacre, M.A. Kendrick, and S.W. Stoker

2060 New Locus for Skin Intrinsic Fluorescence in Type 1 Diabetes Also Associated With Blood and Skin Glycated Proteins
D. Roshandel, R. Klein, B.E.K. Klein, B.H.R. Wolffenbuttel, M.M. van der Klauw, J.V. van Vliet-Ostapchouk, G. Atzmon, D. Ben-Avraham, J.P. Crandall, N. Barzilai, S.B. Bull, A.J. Canty, S.M. Hosseini, L.T. Hiraki, J. Maynard, D.R. Sell, V.M. Monnier, P.A. Cleary, B.H. Braffett, the DCCT/EDIC Research Group, and A.D. Paterson

2072 Improved Performance of Dynamic Measures of Insulin Response Over Surrogate Indices to Identify Genetic Contributors of Type 2 Diabetes: The GUARDIAN Consortium
N.D. Palmer, L.E. Wagenknecht, C.D. Langefeld, N. Wang, T.A. Buchanan, A.H. Xiang, H. Allayee, R.N. Bergman, L.J. Raffel, Y.-D.I. Chen, T. Haritunians, T. Fingerlin, M.O. Goodarzi, K.D. Taylor, J.I. Rotter, R.M. Watanabe, and D.W. Bowden

2081 The Genetic Program of Pancreatic β -Cell Replication In Vivo
A. Klochendler, I. Caspi, N. Corem, M. Moran, O. Friedlich, S. Elgavish, Y. Nevo, A. Helman, B. Glaser, A. Eden, S. Itzkovitz, and Y. Dor

2094 Type 1 Diabetes Genetic Risk Score: A Novel Tool to Discriminate Monogenic and Type 1 Diabetes
K.A. Patel, R.A. Oram, S.E. Flanagan, E. De Franco, K. Colclough, M. Shepherd, S. Ellard, M.N. Weedon, and A.T. Hattersley

ERRATUM

- 2100** Erratum. The Effects of Type 2 Diabetes on Lipoprotein Composition and Arterial Stiffness in Male Youth. *Diabetes* 2013;62:2958–2967
S.M. Gordon, W.S. Davidson, E.M. Urbina, L.M. Dolan, A. Heink, H. Zang, L.J. Lu, and A.S. Shah

ISSUES AND EVENTS

- 2101** Issues and Events

e-LETTERS – COMMENTS AND RESPONSES

- e24** Comment on Salomon et al. Gestational Diabetes Mellitus Is Associated With Changes in the Concentration and Bioactivity of Placenta-Derived Exosomes in Maternal Circulation Across Gestation. *Diabetes* 2016;65:598–609
R. Patil, K. Ghosh, and S. Shetty
- e26** Response to Comment on Salomon et al. Gestational Diabetes Mellitus Is Associated With Changes in the Concentration and Bioactivity of Placenta-Derived Exosomes in Maternal Circulation Across Gestation. *Diabetes* 2016;65:598–609
C. Salomon and G.E. Rice



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