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1923 Epigenetics and Epigenomics: Implications for Diabetes and Obesity  

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### METABOLISM

1935 Coordination Among Lipid Droplets, Peroxisomes, and Mitochondria Regulates Energy Expenditure Through the CIDE-ATGL-PPAR\(_\alpha\) Pathway in Adipocytes  
L. Zhou, M. Yu, M. Arshad, W. Wang, Y. Lu, J. Gong, Y. Gu, P. Li, and L. Xu

1949 Liver Glutamate Dehydrogenase Controls Whole-Body Energy Partitioning Through Amino Acid–Derived Gluconeogenesis and Ammonia Homeostasis  
M. Karaca, J. Martin-Levilain, M. Grimaldi, L. Li, E. Dizin, Y. Emre, and P. Maechler

1962 Acute Nitric Oxide Synthase Inhibition Accelerates Transendothelial Insulin Efflux In Vivo  
I.M. Williams, P.M. McClatchey, D.P. Bracy, F.A. Valenzuela, and D.H. Wasserman

1976 Interaction of GLP-1 and Ghrelin on Glucose Tolerance in Healthy Humans  
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### SIGNAL TRANSDUCTION

1986 Endogenous Fatty Acids Are Essential Signaling Factors of Pancreatic \(\beta\)-Cells and Insulin Secretion  
S. Hauke, K. Krutler, P. Phapale, D.A. Yushchenko, and C. Schultz

### ISLET STUDIES

1999 Restoration of Glucose-Stimulated Cdc42-Pak1 Activation and Insulin Secretion by a Selective Epac Activator in Type 2 Diabetic Human Islets  

2012 Validation of \(^{111}\)In-Exendin SPECT for the Determination of the \(\beta\)-Cell Mass in BioBreeding Diabetes-Prone Rats  
M. Brom, L. Joosten, C. Frielink, H. Peeters, D. Bos, M. van Zanten, O. Boerman, and M. Gotthardt

2019 The No-Go and Nonsense-Mediated RNA Decay Pathways Are Regulated by Inflammatory Cytokines in Insulin-Producing Cells and Human Islets and Determine \(\beta\)-Cell Insulin Biosynthesis and Survival  
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Icons shown below appear on the first page of an article if more information is available online.
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2096 Inflammation and Immunity Pathways Regulate Genetic Susceptibility to Diabetic Nephropathy

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The American Diabetes Association (ADA) is the nation’s leading voluntary health organization supporting diabetes research, information, and advocacy. Its mission is to prevent and cure diabetes and to improve the lives of all people affected by diabetes. ADA is the leading publisher of comprehensive diabetes information. Its huge library of books and periodicals covers every aspect of diabetes and diabetes care.

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To join the fight to increase funding for diabetes research, end discrimination, and improve insurance coverage: Call 1-800-DIABETES or visit diabetes.org/advocacy
To find out how you can get involved with the programs in your community: Call 1-800-DIABETES or visit diabetes.org/in-my-community
To find out about important research regarding diabetes: Go to diabetes.org/research-and-practice
To make a donation or memorial contribution: Call 1-800-DIABETES or visit diabetes.org/donate

On the cover: CIDEP-deficient adipocytes had smaller lipid droplets and an increased number of mitochondria and peroxisomes. The functional coordination among lipid droplets, peroxisomes, and mitochondria promoted fatty acid oxidation in adipocytes. Adipocytes were stained with BODIPY (lipid droplets, blue), MitoTracker (mitochondria, red), and PMP70 (peroxisomes, green). Image courtesy of Linkang Zhou, State Key Laboratory of Membrane Biology and Tsinghua-Peking Center for Life Sciences, School of Life Sciences, Tsinghua University, Beijing, People’s Republic of China. His article, “Coordination Among Lipid Droplets, Peroxisomes, and Mitochondria Regulates Energy Expenditure Through the CIDEP-ATGL-PPARα Pathway in Adipocytes,” appears in this issue of Diabetes (p. 1935).