# Gerald I Shulman

List of Publications by Year
in descending order



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|---|---|---|---|
| 521 papers | 110,792 citations | 107 164 h-index | 198 315 g-index |
| 534 all docs | 534 docs citations | 534 times ranked | 75593 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dyrk1b promotes hepatic lipogenesis by bypassing canonical insulin signaling and directly activating mTORC2 in mice. Journal of Clinical Investigation, 2022, 132, . | 8.2 | 20 |
| 2 | Sexâ€•and strainâ€specific effects of mitochondrial uncoupling on ageâ€•related metabolic diseases in highâ€fat dietâ€fed mice. Aging Cell, 2022, 21, e13539. | 6.7 | 11 |
| 3 | Brown adipose TRX2 deficiency activates mtDNA-NLRP3 to impair thermogenesis and protect against diet-induced insulin resistance. Journal of Clinical Investigation, 2022, 132, . | 8.2 | 28 |
| 4 | Bioactive lipids and metabolic syndromeâ€"a symposium report. Annals of the New York Academy of Sciences, 2022, 1511, 87-106. | 3.8 | 5 |
| 5 | Metformin, phenformin, and galegine inhibit complex IV activity and reduce glycerol-derived gluconeogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122287119. | 7.1 | 37 |
| 6 | Ethnic and sex differences in hepatic lipid content and related cardiometabolic parameters in lean individuals. JCI Insight, 2022, 7, . | 5.0 | 6 |
| 7 | Human Kallistatin Ameliorates Insulin Resistance in Diet Induced Obese Mice. Diabetologie Und Stoffwechsel, 2022, , . | 0.0 | 0 |
| 8 | Hepatic Insulin Resistance Is Not Pathway Selective in Humans With Nonalcoholic Fatty Liver Disease. Diabetes Care, 2021, 44, 489-498. | 8.6 | 42 |
| 9 | Cellular and Molecular Mechanisms of Metformin Action. Endocrine Reviews, 2021, 42, 77-96. | 20.1 | 279 |
| 10 | Short-term overnutrition induces white adipose tissue insulin resistance through sn-1,2-diacylglycerol â€" PKCÎµ â€" insulin receptorT1160 phosphorylation. JCI Insight, 2021, 6, . | 5.0 | 13 |
| 11 | Insulin-stimulated endoproteolytic TUG cleavage links energy expenditure with glucose uptake. Nature Metabolism, 2021, 3, 378-393. | 11.9 | 13 |
| 12 | An update on brown adipose tissue biology: a discussion of recent findings. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E488-E495. | 3.5 | 50 |
| 13 | Validation of a Gas Chromatography-Mass Spectrometry Method for the Measurement of the Redox State Metabolic Ratios Lactate/Pyruvate and Î²-Hydroxybutyrate/Acetoacetate in Biological Samples. International Journal of Molecular Sciences, 2021, 22, 4752. | 4.1 | 7 |
| 14 | Therapeutic potential of mitochondrial uncouplers for the treatment of metabolic associated fatty liver disease and NASH. Molecular Metabolism, 2021, 46, 101178. | 6.5 | 41 |
| 15 | Point: An alternative hypothesis for why exposure to static magnetic and electric fields treats type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E999-E1000. | 3.5 | 3 |
| 16 | A Single Virtual Consult Reduces Severe Hyperglycemia in Patients Admitted with COVID19 Infection. Journal of the Endocrine Society, 2021, 5, A335-A335. | 0.2 | 0 |
| 17 | Reply to Carter et al.: An alternative hypothesis for why exposure to static magnetic and electric fields treats type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E1003-E1003. | 3.5 | 0 |
| 18 | Mechanisms and disease consequences of nonalcoholic fatty liver disease. Cell, 2021, 184, 2537-2564. | 28.9 | 757 |

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|---|---|---|---|
| 19 | Deletion of the diabetes candidate gene Slc16a13 in mice attenuates diet-induced ectopic lipid accumulation and insulin resistance. Communications Biology, 2021, 4, 826. | 4.4 | 6 |
| 20 | Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis. Cell Metabolism, 2021, 33, 1836-1852.e11. | 16.2 | 56 |
| 21 | Mitophagy-mediated adipose inflammation contributes to type 2 diabetes with hepatic insulin resistance. Journal of Experimental Medicine, 2021, 218, . | 8.5 | 66 |
| 22 | A feed-forward regulatory loop in adipose tissue promotes signaling by the hepatokine FGF21. Genes and Development, 2021, 35, 133-146. | 5.9 | 26 |
| 23 | CIDEA expression in SAT from adolescent girls with obesity and unfavorable patterns of abdominal fat distribution. Obesity, 2021, 29, 2068-2080. | 3.0 | 1 |
| 24 | MMAB promotes negative feedback control of cholesterol homeostasis. Nature Communications, 2021, 12, 6448. | 12.8 | 10 |
| 25 | IL-27 signalling promotes adipocyte thermogenesis and energy expenditure. Nature, 2021, 600, 314-318. | 27.8 | 70 |
| 26 | GS-0976 (Firsocostat): an investigational liver-directed acetyl-CoA carboxylase (ACC) inhibitor for the treatment of non-alcoholic steatohepatitis (NASH). Expert Opinion on Investigational Drugs, 2020, 29, 135-141. | 4.1 | 91 |
| 27 | Dissociation of Muscle Insulin Resistance from Alterations in Mitochondrial Substrate Preference. Cell Metabolism, 2020, 32, 726-735.e5. | 16.2 | 27 |
| 28 | A MicroRNA Linking Human Positive Selection and Metabolic Disorders. Cell, 2020, 183, 684-701.e14. | 28.9 | 46 |
| 29 | A Membrane-Bound Diacylglycerol Species Induces PKCÏµ-Mediated Hepatic Insulin Resistance. Cell Metabolism, 2020, 32, 654-664.e5. | 16.2 | 83 |
| 30 | Obesity-Linked PPARÎ³ S273 Phosphorylation Promotes Insulin Resistance through Growth Differentiation Factor 3. Cell Metabolism, 2020, 32, 665-675.e6. | 16.2 | 53 |
| 31 | Sodium-glucose cotransporter-2 inhibitors: Understanding the mechanisms for therapeutic promise and persisting risks. Journal of Biological Chemistry, 2020, 295, 14379-14390. | 3.4 | 54 |
| 32 | Carbohydrate restriction reverses NAFLD by altering hepatic mitochondrial fluxes in humans. Journal of Hepatology, 2020, 73, S14. | 3.7 | 0 |
| 33 | Myosteatosis in the Context of Skeletal Muscle Function Deficit: An Interdisciplinary Workshop at the National Institute on Aging. Frontiers in Physiology, 2020, 11, 963. | 2.8 | 190 |
| 34 | Membrane-bound sn-1,2-diacylglycerols explain the dissociation of hepatic insulin resistance from hepatic steatosis in MTTP knockout mice. Journal of Lipid Research, 2020, 61, 1565-1576. | 4.2 | 15 |
| 35 | Mechanisms by which adiponectin reverses high fat diet-induced insulin resistance in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32584-32593. | 7.1 | 82 |
| 36 | One-leg inactivity induces a reduction in mitochondrial oxidative capacity, intramyocellular lipid accumulation and reduced insulin signalling upon lipid infusion: a human study with unilateral limb suspension. Diabetologia, 2020, 63, 1211-1222. | 6.3 | 18 |

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|---|---|---|---|
| 37 | Regulation of adipose tissue inflammation by interleukin 6. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2751-2760. | 7.1 | 216 |
| 38 | Glucagon stimulates gluconeogenesis by INSP3R1-mediated hepatic lipolysis. Nature, 2020, 579, 279-283. | 27.8 | 110 |
| 39 | OGT suppresses S6K1-mediated macrophage inflammation and metabolic disturbance. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16616-16625. | 7.1 | 42 |
| 40 | Mitochondrial Dysfunction, Insulin Resistance, and Potential Genetic Implications. Endocrinology, 2020, 161, . | 2.8 | 96 |
| 41 | Slc20a1/Pit1 and Slc20a2/Pit2 are essential for normal skeletal myofiber function and survival. Scientific Reports, 2020, 10, 3069. | 3.3 | 12 |
| 42 | Mechanistic Links between Obesity, Insulin, and Cancer. Trends in Cancer, 2020, 6, 75-78. | 7.4 | 44 |
| 43 | Metabolic control analysis of hepatic glycogen synthesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8166-8176. | 7.1 | 51 |
| 44 | Effect of a ketogenic diet on hepatic steatosis and hepatic mitochondrial metabolism in nonalcoholic fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7347-7354. | 7.1 | 137 |
| 45 | Effect of a Low-Fat Vegan Diet on Body Weight, Insulin Sensitivity, Postprandial Metabolism, and Intramyocellular and Hepatocellular Lipid Levels in Overweight Adults. JAMA Network Open, 2020, 3, e2025454. | 5.9 | 85 |
| 46 | The omentum of obese girls harbors small adipocytes and browning transcripts. JCI Insight, 2020, 5, . | 5.0 | 8 |
| 47 | Leptin mediates postprandial increases in body temperature through hypothalamusâ€“adrenal medullaâ€“adipose tissue crosstalk. Journal of Clinical Investigation, 2020, 130, 2001-2016. | 8.2 | 25 |
| 48 | The effects of increased acetate turnover on glucose-induced insulin secretion in lean and obese humans. Journal of Clinical and Translational Science, 2019, 3, 18-20. | 0.6 | 13 |
| 49 | Nonalcoholic Fatty Liver Disease, Insulin Resistance, and Ceramides. New England Journal of Medicine, 2019, 381, 1866-1869. | 27.0 | 67 |
| 50 | Adipsin preserves beta cells in diabetic mice and associates with protection from type 2 diabetes in humans. Nature Medicine, 2019, 25, 1739-1747. | 30.7 | 100 |
| 51 | Controlled-release mitochondrial protonophore (CRMP) reverses dyslipidemia and hepatic steatosis in dysmetabolic nonhuman primates. Science Translational Medicine, 2019, 11, . | 12.4 | 44 |
| 52 | Dehydration and insulinopenia are necessary and sufficient forÂeuglycemic ketoacidosis in SGLT2 inhibitor-treated rats. Nature Communications, 2019, 10, 548. | 12.8 | 73 |
| 53 | Leptinâ€™s hunger-suppressing effects are mediated by the hypothalamicâ€“pituitaryâ€“adrenocortical axis in rodents. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13670-13679. | 7.1 | 64 |
| 54 | Antiâ€inflammatory effects of oestrogen mediate the sexual dimorphic response to lipidâ€induced insulin resistance. Journal of Physiology, 2019, 597, 3885-3903. | 2.9 | 48 |

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|---|---|---|---|
| 55 | Considering the Links Between Nonalcoholic Fatty Liver Disease and Insulin Resistance: Revisiting the Role of Protein Kinase C Îµ. Hepatology, 2019, 70, 2217-2220. | 7.3 | 6 |
| 56 | TFAM Enhances Fat Oxidation and Attenuates High-Fat Dietâ€“Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2019, 68, 1552-1564. | 0.6 | 54 |
| 57 | Cardiac myocyte KLF5 regulates body weight via alteration of cardiac FGF21. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2125-2137. | 3.8 | 13 |
| 58 | Defective fatty acid oxidation in mice with muscle-specific acyl-CoA synthetase 1 deficiency increases amino acid use and impairs muscle function. Journal of Biological Chemistry, 2019, 294, 8819-8833. | 3.4 | 16 |
| 59 | Adipose glucocorticoid action influences wholeâ€body metabolismviamodulation of hepatic insulin action. FASEB Journal, 2019, 33, 8174-8185. | 0.5 | 12 |
| 60 | Altered In Vivo Lipid Fluxes and Cell Dynamics in Subcutaneous Adipose Tissues Are Associated With the Unfavorable Pattern of Fat Distribution in Obese Adolescent Girls. Diabetes, 2019, 68, 1168-1177. | 0.6 | 16 |
| 61 | Hepatic insulin sensitivity is improved in highâ€fat dietâ€fed Park2 knockout mice in association with increased hepatic AMPK activation and reduced steatosis. Physiological Reports, 2019, 7, e14281. | 1.7 | 9 |
| 62 | The integrative biology of type 2 diabetes. Nature, 2019, 576, 51-60. | 27.8 | 621 |
| 63 | Distinct Hepatic PKA and CDK Signaling Pathways Control Activity-Independent Pyruvate Kinase Phosphorylation and Hepatic Glucose Production. Cell Reports, 2019, 29, 3394-3404.e9. | 6.4 | 8 |
| 64 | Ectopic lipid deposition mediates insulin resistance in adipose specific 11Î²-hydroxysteroid dehydrogenase type 1 transgenic mice. Metabolism: Clinical and Experimental, 2019, 93, 1-9. | 3.4 | 11 |
| 65 | Emerging Pharmacological Targets for the Treatment of Nonalcoholic Fatty Liver Disease, Insulin Resistance, and Type 2 Diabetes. Annual Review of Pharmacology and Toxicology, 2019, 59, 65-87. | 9.4 | 58 |
| 66 | Regulation of hepatic mitochondrial oxidation by glucose-alanine cycling during starvation in humans. Journal of Clinical Investigation, 2019, 129, 4671-4675. | 8.2 | 45 |
| 67 | Genetic Ablation of miR-33 Increases Food Intake, Enhances Adipose Tissue Expansion, and Promotes Obesity and Insulin Resistance. Cell Reports, 2018, 22, 2133-2145. | 6.4 | 94 |
| 68 | In vivo studies on the mechanism of methylene cyclopropyl acetic acid and methylene cyclopropyl glycine-induced hypoglycemia. Biochemical Journal, 2018, 475, 1063-1074. | 3.7 | 8 |
| 69 | Angptl8 antisense oligonucleotide improves adipose lipid metabolism and prevents diet-induced NAFLD and hepatic insulin resistance in rodents. Diabetologia, 2018, 61, 1435-1446. | 6.3 | 52 |
| 70 | Skeletal Muscleâ€Specific Deletion of MKP-1 Reveals a p38 MAPK/JNK/Akt Signaling Node That Regulates Obesity-Induced Insulin Resistance. Diabetes, 2018, 67, 624-635. | 0.6 | 63 |
| 71 | Leptin Mediates a Glucose-Fatty Acid Cycle to Maintain Glucose Homeostasis in Starvation. Cell, 2018, 172, 234-248.e17. | 28.9 | 125 |
| 72 | Nonalcoholic Fatty Liver Disease as a Nexus of Metabolic and Hepatic Diseases. Cell Metabolism, 2018, 27, 22-41. | 16.2 | 496 |

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|---|---|---|---|
| 73 | Adipocyte JAK2 Regulates Hepatic Insulin Sensitivity Independently of Body Composition, Liver Lipid Content, and Hepatic Insulin Signaling. Diabetes, 2018, 67, 208-221. | 0.6 | 19 |
| 74 | Mechanisms by which a Very-Low-Calorie Diet Reverses Hyperglycemia in a Rat Model of Type 2 Diabetes. Cell Metabolism, 2018, 27, 210-217.e3. | 16.2 | 71 |
| 75 | The circulating metabolome of human starvation. JCI Insight, 2018, 3, . | 5.0 | 92 |
| 76 | Absence of ANGPTL4 in adipose tissue improves glucose tolerance and attenuates atherogenesis. JCI Insight, 2018, 3, . | 5.0 | 91 |
| 77 | The Role of Leptin in Maintaining Plasma Glucose During Starvation. Postdoc Journal, 2018, 6, 3-19. | 0.4 | 9 |
| 78 | PKCÎµ contributes to lipid-induced insulin resistance through cross talk with p70S6K and through previously unknown regulators of insulin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8996-E9005. | 7.1 | 51 |
| 79 | Acetylâ€CoA Carboxylase Inhibition Reverses NAFLD and Hepatic Insulin Resistance but Promotes Hypertriglyceridemia in Rodents. Hepatology, 2018, 68, 2197-2211. | 7.3 | 172 |
| 80 | Uncoupling Hepatic Oxidative Phosphorylation Reduces Tumor Growth in Two Murine Models of Colon Cancer. Cell Reports, 2018, 24, 47-55. | 6.4 | 48 |
| 81 | Loss of Nucleobindin-2 Causes Insulin Resistance in Obesity without Impacting Satiety or Adiposity. Cell Reports, 2018, 24, 1085-1092.e6. | 6.4 | 21 |
| 82 | Mechanisms of Insulin Action and Insulin Resistance. Physiological Reviews, 2018, 98, 2133-2223. | 28.8 | 1,502 |
| 83 | Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. Nature Medicine, 2018, 24, 1384-1394. | 30.7 | 200 |
| 84 | Deciphering the Role of Lipid Droplets in Cardiovascular Disease. Circulation, 2018, 138, 305-315. | 1.6 | 89 |
| 85 | Elevated hepatic expression of H19 long noncoding RNA contributes to diabetic hyperglycemia. JCI Insight, 2018, 3, . | 5.0 | 57 |
| 86 | Lacteal junction zippering protects against diet-induced obesity. Science, 2018, 361, 599-603. | 12.6 | 162 |
| 87 | 17Î±-Estradiol Alleviates Age-related Metabolic and Inflammatory Dysfunction in Male Mice Without Inducing Feminization. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 3-15. | 3.6 | 91 |
| 88 | Loss of astrocyte cholesterol synthesis disrupts neuronal function and alters whole-body metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1189-1194. | 7.1 | 143 |
| 89 | The human longevity gene homolog INDY and interleukinâ€6 interact in hepatic lipid metabolism. Hepatology, 2017, 66, 616-630. | 7.3 | 55 |
| 90 | A Non-invasive Method to Assess Hepatic Acetyl-CoA InÂVivo. Cell Metabolism, 2017, 25, 749-756. | 16.2 | 30 |

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|---|---|---|---|
| 91 | Mechanisms of Insulin Resistance in Primary and Secondary Nonalcoholic Fatty Liver. Diabetes, 2017, 66, 2241-2253. | 0.6 | 124 |
| 92 | Mitochondrial-Targeted Catalase Protects Against High-Fat Dietâ€“Induced Muscle Insulin Resistance by Decreasing Intramuscular Lipid Accumulation. Diabetes, 2017, 66, 2072-2081. | 0.6 | 45 |
| 93 | Hepatic Diacylglycerol-Associated Protein Kinase CÎµ Translocation Links Hepatic Steatosis to Hepatic Insulin Resistance in Humans. Cell Reports, 2017, 19, 1997-2004. | 6.4 | 117 |
| 94 | Roles of Diacylglycerols and Ceramides in Hepatic Insulin Resistance. Trends in Pharmacological Sciences, 2017, 38, 649-665. | 8.7 | 251 |
| 95 | Selective Chemical Inhibition of PGC-1Î± Gluconeogenic Activity Ameliorates Type 2 Diabetes. Cell, 2017, 169, 148-160.e15. | 28.9 | 153 |
| 96 | A controlledâ€release mitochondrial protonophore reverses hypertriglyceridemia, nonalcoholic steatohepatitis, and diabetes in lipodystrophic mice. FASEB Journal, 2017, 31, 2916-2924. | 0.5 | 35 |
| 97 | Hepatic inositol 1,4,5 trisphosphate receptor type 1 mediates fatty liver. Hepatology Communications, 2017, 1, 23-35. | 4.3 | 56 |
| 98 | Absence of Carbohydrate Response Element Binding Protein in Adipocytes Causes Systemic Insulin Resistance and Impairs Glucose Transport. Cell Reports, 2017, 21, 1021-1035. | 6.4 | 103 |
| 99 | Non-invasive assessment of hepatic mitochondrial metabolism by positional isotopomer NMR tracer analysis (PINTA). Nature Communications, 2017, 8, 798. | 12.8 | 45 |
| 100 | Retinol saturase modulates lipid metabolism and the production of reactive oxygen species. Archives of Biochemistry and Biophysics, 2017, 633, 93-102. | 3.0 | 31 |
| 101 | Pathogenesis of hypothyroidism-induced NAFLD is driven by intra- and extrahepatic mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9172-E9180. | 7.1 | 52 |
| 102 | Regulation of hepatic glucose metabolism in health and disease. Nature Reviews Endocrinology, 2017, 13, 572-587. | 9.6 | 718 |
| 103 | Mechanism by which arylamine N -acetyltransferase 1 ablation causes insulin resistance in mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11285-E11292. | 7.1 | 49 |
| 104 | Adipocyte JAK2 mediates growth hormoneâ€“induced hepatic insulin resistance. JCI Insight, 2017, 2, e91001. | 5.0 | 31 |
| 105 | Mechanism for leptinâ€™s acute insulin-independent effect to reverse diabetic ketoacidosis. Journal of Clinical Investigation, 2017, 127, 657-669. | 8.2 | 58 |
| 106 | Mechanism by Which Caloric Restriction Improves Insulin Sensitivity in Sedentary Obese Adults. Diabetes, 2016, 65, 74-84. | 0.6 | 86 |
| 107 | The pathogenesis of insulin resistance: integrating signaling pathways and substrate flux. Journal of Clinical Investigation, 2016, 126, 12-22. | 8.2 | 924 |
| 108 | Assessment of Hepatic Mitochondrial Oxidation and Pyruvate Cycling in NAFLD by 13C Magnetic Resonance Spectroscopy. Cell Metabolism, 2016, 24, 167-171. | 16.2 | 57 |

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|---|---|---|---|
| 109 | Reduced intestinal lipid absorption and body weight-independent improvements in insulin sensitivity in high-fat diet-fed Park2 knockout mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E105-E116. | 3.5 | 12 |
| 110 | CD301b + Mononuclear Phagocytes Maintain Positive Energy Balance through Secretion of Resistin-like Molecule Alpha. Immunity, 2016, 45, 583-596. | 14.3 | 44 |
| 111 | Resolution of nonâ€alcoholic steatohepatitis after growth hormone replacement in a pediatric liver transplant patient with panhypopituitarism. Pediatric Transplantation, 2016, 20, 1157-1163. | 1.0 | 15 |
| 112 | MARCH1 regulates insulin sensitivity by controlling cell surface insulin receptor levels. Nature Communications, 2016, 7, 12639. | 12.8 | 66 |
| 113 | Imeglimin lowers glucose primarily by amplifying glucose-stimulated insulin secretion in high-fat-fed rodents. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E461-E470. | 3.5 | 42 |
| 114 | Acetate mediates a microbiomeâ€“brainâ€“Î²-cell axis to promote metabolic syndrome. Nature, 2016, 534, 213-217. | 27.8 | 990 |
| 115 | XBP1s Is an Anti-lipogenic Protein. Journal of Biological Chemistry, 2016, 291, 17394-17404. | 3.4 | 57 |
| 116 | Hypophosphatemia promotes lower rates of muscle ATP synthesis. FASEB Journal, 2016, 30, 3378-3387. | 0.5 | 70 |
| 117 | Argininosuccinate synthetase regulates hepatic AMPK linking protein catabolism and ureagenesis to hepatic lipid metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3423-30. | 7.1 | 45 |
| 118 | Propionate Increases Hepatic Pyruvate Cycling and Anaplerosis and Alters Mitochondrial Metabolism. Journal of Biological Chemistry, 2016, 291, 12161-12170. | 3.4 | 58 |
| 119 | AMPK is critical for mitochondrial function during reperfusion after myocardial ischemia. Journal of Molecular and Cellular Cardiology, 2016, 91, 104-113. | 1.9 | 62 |
| 120 | Secondâ€generation antisense oligonucleotides against Î²â€catenin protect mice against dietâ€induced hepatic steatosis and hepatic and peripheral insulin resistance. FASEB Journal, 2016, 30, 1207-1217. | 0.5 | 20 |
| 121 | Pleotropic effects of leptin to reverse insulin resistance and diabetic ketoacidosis. Diabetologia, 2016, 59, 933-937. | 6.3 | 29 |
| 122 | Disruption of Adipose Rab10-Dependent Insulin Signaling Causes Hepatic Insulin Resistance. Diabetes, 2016, 65, 1577-1589. | 0.6 | 46 |
| 123 | Anti-myostatin antibody increases muscle mass and strength and improves insulin sensitivity in old mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2212-2217. | 7.1 | 129 |
| 124 | A Role of the Inflammasome in the Low Storage Capacity of the Abdominal Subcutaneous Adipose Tissue in Obese Adolescents. Diabetes, 2016, 65, 610-618. | 0.6 | 84 |
| 125 | Insulin receptor Thr1160 phosphorylation mediates lipid-induced hepatic insulin resistance. Journal of Clinical Investigation, 2016, 126, 4361-4371. | 8.2 | 173 |
| 126 | Type 2 diabetes mellitus. Nature Reviews Disease Primers, 2015, 1, 15019. | 30.5 | 1,308 |

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|---|---|---|---|
| 127 | Short-term food restriction followed by controlled refeeding promotes gorging behavior, enhances fat deposition, and diminishes insulin sensitivity in mice. Journal of Nutritional Biochemistry, 2015, 26, 721-728. | 4.2 | 24 |
| 128 | Macrophage-specific de Novo Synthesis of Ceramide Is Dispensable for Inflammasome-driven Inflammation and Insulin Resistance in Obesity. Journal of Biological Chemistry, 2015, 290, 29402-29413. | 3.4 | 50 |
| 129 | Insulin-independent regulation of hepatic triglyceride synthesis by fatty acids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1143-1148. | 7.1 | 176 |
| 130 | Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. Cell, 2015, 160, 745-758. | 28.9 | 547 |
| 131 | Neuronal UCP1 expression suggests a mechanism for local thermogenesis during hibernation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1607-1612. | 7.1 | 38 |
| 132 | Acetylation of TUG Protein Promotes the Accumulation of GLUT4 Glucose Transporters in an Insulin-responsive Intracellular Compartment. Journal of Biological Chemistry, 2015, 290, 4447-4463. | 3.4 | 46 |
| 133 | Reply to Constantin-Teodosiu et al.: Mice with genetic PDH activation are not protected from high-fat dietâ€“induced muscle insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E825-E825. | 7.1 | 3 |
| 134 | Controlled-release mitochondrial protonophore reverses diabetes and steatohepatitis in rats. Science, 2015, 347, 1253-1256. | 12.6 | 229 |
| 135 | Response to Burgess. Nature Medicine, 2015, 21, 109-110. | 30.7 | 8 |
| 136 | Effect of aging on muscle mitochondrial substrate utilization in humans. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11330-11334. | 7.1 | 72 |
| 137 | ApoA5 knockdown improves whole-body insulin sensitivity in high-fat-fed mice by reducing ectopic lipid content. Journal of Lipid Research, 2015, 56, 526-536. | 4.2 | 45 |
| 138 | FGF1 and FGF19 reverse diabetes by suppression of the hypothalamicâ€“pituitaryâ€“adrenal axis. Nature Communications, 2015, 6, 6980. | 12.8 | 106 |
| 139 | An ERK/Cdk5 axis controls the diabetogenic actions of PPARÎ³. Nature, 2015, 517, 391-395. | 27.8 | 251 |
| 140 | Hepatic Mitogen-Activated Protein Kinase Phosphatase 1 Selectively Regulates Glucose Metabolism and Energy Homeostasis. Molecular and Cellular Biology, 2015, 35, 26-40. | 2.3 | 69 |
| 141 | Prevention of diet-induced hepatic steatosis and hepatic insulin resistance by second generation antisense oligonucleotides targeted to the longevity gene mIndy (Slc13a5). Aging, 2015, 7, 1086-1093. | 3.1 | 34 |
| 142 | Ectopic Fat in Insulin Resistance, Dyslipidemia, and Cardiometabolic Disease. New England Journal of Medicine, 2014, 371, 2236-2238. | 27.0 | 175 |
| 143 | Mitochondrial GTP Insensitivity Contributes to Hypoglycemia in Hyperinsulinemia Hyperammonemia by Inhibiting Glucagon Release. Diabetes, 2014, 63, 4218-4229. | 0.6 | 20 |
| 144 | The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. Nucleic Acids Research, 2014, 42, 13799-13811. | 14.5 | 218 |

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|---|---|---|---|
| 145 | PKCÎ» Haploinsufficiency Prevents Diabetes by a Mechanism Involving Alterations in Hepatic Enzymes. Molecular Endocrinology, 2014, 28, 1097-1107. | 3.7 | 10 |
| 146 | Genetic activation of pyruvate dehydrogenase alters oxidative substrate selection to induce skeletal muscle insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16508-16513. | 7.1 | 50 |
| 147 | Early Life Exposure to Maternal Insulin Resistance Has Persistent Effects on Hepatic NAFLD in Juvenile Nonhuman Primates. Diabetes, 2014, 63, 2702-2713. | 0.6 | 105 |
| 148 | Impairment of insulin-stimulated glucose transport and ERK activation by adipocyte-specific knockout of PKC-Î» produces a phenotype characterized by diminished adiposity and enhanced insulin suppression of hepatic gluconeogenesis. Adipocyte, 2014, 3, 19-29. | 2.8 | 10 |
| 149 | Inositol 1,4,5-trisphosphate receptor type II (InsP<sub>3</sub>R-II) is reduced in obese mice, but metabolic homeostasis is preserved in mice lacking InsP<sub>3</sub>R-II. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E1057-E1064. | 3.5 | 18 |
| 150 | Role of diacylglycerol activation of PKCÎ¸ in lipid-induced muscle insulin resistance in humans. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9597-9602. | 7.1 | 326 |
| 151 | Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. Cell, 2014, 156, 304-316. | 28.9 | 719 |
| 152 | A Role for Mitochondrial Phosphoenolpyruvate Carboxykinase (PEPCK-M) in the Regulation of Hepatic Gluconeogenesis. Journal of Biological Chemistry, 2014, 289, 7257-7263. | 3.4 | 87 |
| 153 | Nonalcoholic fatty liver disease, hepatic insulin resistance, and type 2 Diabetes. Hepatology, 2014, 59, 713-723. | 7.3 | 567 |
| 154 | Direct assessment of hepatic mitochondrial oxidative and anaplerotic fluxes in humans using dynamic 13C magnetic resonance spectroscopy. Nature Medicine, 2014, 20, 98-102. | 30.7 | 80 |
| 155 | Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. Nature, 2014, 510, 542-546. | 27.8 | 989 |
| 156 | Cyclin D1â€“Cdk4 controls glucose metabolism independently of cell cycle progression. Nature, 2014, 510, 547-551. | 27.8 | 198 |
| 157 | The Mammalian INDY Homolog Is Induced by CREB in a Rat Model of Type 2 Diabetes. Diabetes, 2014, 63, 1048-1057. | 0.6 | 38 |
| 158 | Ectopic Fat in Insulin Resistance, Dyslipidemia, and Cardiometabolic Disease. New England Journal of Medicine, 2014, 371, 1131-1141. | 27.0 | 803 |
| 159 | Niclosamide ethanolamineâ€“induced mild mitochondrial uncoupling improves diabetic symptoms in mice. Nature Medicine, 2014, 20, 1263-1269. | 30.7 | 230 |
| 160 | Muscle-specific activation of Ca2+/calmodulin-dependent protein kinase IV increases whole-body insulin action in mice. Diabetologia, 2014, 57, 1232-1241. | 6.3 | 12 |
| 161 | Tissue-Specific Differences in the Development of Insulin Resistance in a Mouse Model for Type 1 Diabetes. Diabetes, 2014, 63, 3856-3867. | 0.6 | 51 |
| 162 | Leptin reverses diabetes by suppression of the hypothalamic-pituitary-adrenal axis. Nature Medicine, 2014, 20, 759-763. | 30.7 | 178 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Ostα<sup>â˜’/â˜’</sup>mice exhibit altered expression of intestinal lipid absorption genes, resistance to age-related weight gain, and modestly improved insulin sensitivity. American Journal of Physiology - Renal Physiology, 2014, 306, G425-G438. | 3.4 | 14 |
| 164 | The role of hepatic lipids in hepatic insulin resistance and type 2 diabetes. Nature, 2014, 510, 84-91. | 27.8 | 898 |
| 165 | Regulation of Hepatic Energy Metabolism and Gluconeogenesis by BAD. Cell Metabolism, 2014, 19, 272-284. | 16.2 | 67 |
| 166 | Ceramide-Activated Phosphatase Mediates Fatty Acidâ€“Induced Endothelial VEGF Resistance and Impaired Angiogenesis. American Journal of Pathology, 2014, 184, 1562-1576. | 3.8 | 41 |
| 167 | Increased Brain Lactate Concentrations Without Increased Lactate Oxidation During Hypoglycemia in Type 1 Diabetic Individuals. Diabetes, 2013, 62, 3075-3080. | 0.6 | 40 |
| 168 | Mechanisms Underlying the Onset of Oral Lipidâ€“Induced Skeletal Muscle Insulin Resistance in Humans. Diabetes, 2013, 62, 2240-2248. | 0.6 | 102 |
| 169 | Targeting Pyruvate Carboxylase Reduces Gluconeogenesis and Adiposity and Improves Insulin Resistance. Diabetes, 2013, 62, 2183-2194. | 0.6 | 107 |
| 170 | A Î²-Peptide Agonist of the GLP-1 Receptor, a Class B GPCR. Organic Letters, 2013, 15, 5318-5321. | 4.6 | 39 |
| 171 | Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. Cell Metabolism, 2013, 18, 740-748. | 16.2 | 190 |
| 172 | Role of caspase-1 in regulation of triglyceride metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4810-4815. | 7.1 | 64 |
| 173 | Cellular Mechanism by Which Estradiol Protects Female Ovariectomized Mice From High-Fat Diet-Induced Hepatic and Muscle Insulin Resistance. Endocrinology, 2013, 154, 1021-1028. | 2.8 | 154 |
| 174 | Role of patatinâ€like phospholipase domainâ€containing 3 on lipidâ€induced hepatic steatosis and insulin resistance in rats. Hepatology, 2013, 57, 1763-1772. | 7.3 | 72 |
| 175 | The Role of the Carbohydrate Response Element-Binding Protein in Male Fructose-Fed Rats. Endocrinology, 2013, 154, 36-44. | 2.8 | 73 |
| 176 | Cellular Mechanisms by Which FGF21 Improves Insulin Sensitivity in Male Mice. Endocrinology, 2013, 154, 3099-3109. | 2.8 | 184 |
| 177 | Thyroid hormone receptor-Î² agonists prevent hepatic steatosis in fat-fed rats but impair insulin sensitivity via discrete pathways. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E89-E100. | 3.5 | 84 |
| 178 | Decreased Transcription of ChREBP-Îα/Î² Isoforms in Abdominal Subcutaneous Adipose Tissue of Obese Adolescents With Prediabetes or Early Type 2 Diabetes. Diabetes, 2013, 62, 837-844. | 0.6 | 93 |
| 179 | Saturated and unsaturated fat induce hepatic insulin resistance independently of TLR-4 signaling and ceramide synthesis in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12780-12785. | 7.1 | 85 |
| 180 | cAMP-responsive Element-binding Protein (CREB)-regulated Transcription Coactivator 2 (CRTC2) Promotes Glucagon Clearance and Hepatic Amino Acid Catabolism to Regulate Glucose Homeostasis. Journal of Biological Chemistry, 2013, 288, 16167-16176. | 3.4 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Enhanced Fasting Glucose Turnover in Mice with Disrupted Action of TUG Protein in Skeletal Muscle. Journal of Biological Chemistry, 2013, 288, 20135-20150. | 3.4 | 20 |
| 182 | CGI-58 knockdown sequesters diacylglycerols in lipid droplets/ER-preventing diacylglycerol-mediated hepatic insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1869-1874. | 7.1 | 137 |
| 183 | Fish Oil Selectively Improves Heart Function in a Mouse Model of Lipid-induced Cardiomyopathy. Journal of Cardiovascular Pharmacology, 2013, 61, 345-354. | 1.9 | 10 |
| 184 | Lipid-induced hepatic insulin resistance. Aging, 2013, 5, 582-583. | 3.1 | 32 |
| 185 | PP2A inhibition results in hepatic insulin resistance despite Akt2 activation. Aging, 2013, 5, 770-781. | 3.1 | 34 |
| 186 | Treating fatty liver and insulin resistance. Aging, 2013, 5, 791-792. | 3.1 | 6 |
| 187 | Regulation of Mitochondrial Biogenesis by Lipoprotein Lipase in Muscle of Insulin-Resistant Offspring of Parents With Type 2 Diabetes. Diabetes, 2012, 61, 877-887. | 0.6 | 63 |
| 188 | Fatty acid amide hydrolase ablation promotes ectopic lipid storage and insulin resistance due to centrally mediated hypothyroidism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14966-14971. | 7.1 | 32 |
| 189 | Chemical and genetic evidence for the involvement of Wnt antagonist Dickkopf2 in regulation of glucose metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11402-11407. | 7.1 | 52 |
| 190 | Dissociation of Inositol-requiring Enzyme (IRE1Î±)-mediated c-Jun N-terminal Kinase Activation from Hepatic Insulin Resistance in Conditional X-box-binding Protein-1 (XBP1) Knock-out Mice. Journal of Biological Chemistry, 2012, 287, 2558-2567. | 3.4 | 132 |
| 191 | Low Density Lipoprotein (LDL) Receptor-related Protein 6 (LRP6) Regulates Body Fat and Glucose Homeostasis by Modulating Nutrient Sensing Pathways and Mitochondrial Energy Expenditure. Journal of Biological Chemistry, 2012, 287, 7213-7223. | 3.4 | 67 |
| 192 | The Deacetylase Sirt6 Activates the Acetyltransferase GCN5 and Suppresses Hepatic Gluconeogenesis. Molecular Cell, 2012, 48, 900-913. | 9.7 | 246 |
| 193 | Thyroid Hormone Receptor-Î± Gene Knockout Mice Are Protected from Diet-Induced Hepatic Insulin Resistance. Endocrinology, 2012, 153, 583-591. | 2.8 | 66 |
| 194 | Mechanisms for Insulin Resistance: Common Threads and Missing Links. Cell, 2012, 148, 852-871. | 28.9 | 1,681 |
| 195 | Diacylglycerol Activation of Protein Kinase CÎµ and Hepatic Insulin Resistance. Cell Metabolism, 2012, 15, 574-584. | 16.2 | 247 |
| 196 | A guide to analysis of mouse energy metabolism. Nature Methods, 2012, 9, 57-63. | 19.0 | 655 |
| 197 | 31P-Magnetization Transfer Magnetic Resonance Spectroscopy Measurements of In Vivo Metabolism. Diabetes, 2012, 61, 2669-2678. | 0.6 | 51 |
| 198 | Inflammasome-mediated dysbiosis regulates progression of NAFLD and obesity. Nature, 2012, 482, 179-185. | 27.8 | 2,026 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Skeletal Muscle Insulin Resistance Promotes Increased Hepatic De Novo Lipogenesis, Hyperlipidemia, and Hepatic Steatosis in the Elderly. Diabetes, 2012, 61, 2711-2717. | 0.6 | 126 |
| 200 | Reversal of muscle insulin resistance by weight reduction in young, lean, insulin-resistant offspring of parents with type 2 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8236-8240. | 7.1 | 74 |
| 201 | Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. Nature Medicine, 2012, 18, 934-942. | 30.7 | 285 |
| 202 | Development of insulin resistance in mice lacking PGC-1Î± in adipose tissues. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9635-9640. | 7.1 | 248 |
| 203 | Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16381-16385. | 7.1 | 475 |
| 204 | Inhibition of Notch signaling ameliorates insulin resistance in a FoxO1-dependent manner. Nature Medicine, 2011, 17, 961-967. | 30.7 | 165 |
| 205 | FGF19 as a Postprandial, Insulin-Independent Activator of Hepatic Protein and Glycogen Synthesis. Science, 2011, 331, 1621-1624. | 12.6 | 504 |
| 206 | Desnutrin/ATGL Is Regulated by AMPK and Is Required for a Brown Adipose Phenotype. Cell Metabolism, 2011, 13, 739-748. | 16.2 | 440 |
| 207 | Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. Cell Metabolism, 2011, 14, 184-195. | 16.2 | 193 |
| 208 | Dissociation of the Glucose and Lipid Regulatory Functions of FoxO1 by Targeted Knockin of Acetylation-Defective Alleles in Mice. Cell Metabolism, 2011, 14, 587-597. | 16.2 | 60 |
| 209 | Sirtuin-1 regulation of mammalian metabolism. Trends in Molecular Medicine, 2011, 17, 8-13. | 6.7 | 88 |
| 210 | Antidiabetic actions of a non-agonist PPARÎ³ ligand blocking Cdk5-mediated phosphorylation. Nature, 2011, 477, 477-481. | 27.8 | 484 |
| 211 | SirT1 Regulates Adipose Tissue Inflammation. Diabetes, 2011, 60, 3235-3245. | 0.6 | 261 |
| 212 | Knockdown of the gene encoding Drosophila tribbles homologue 3 (Trib3) improves insulin sensitivity through peroxisome proliferator-activated receptor-Î³ (PPAR-Î³) activation in a rat model of insulin resistance. Diabetologia, 2011, 54, 935-944. | 6.3 | 27 |
| 213 | Regulation of hepatic fat and glucose oxidation in rats with lipid-induced hepatic insulin resistance. Hepatology, 2011, 53, 1175-1181. | 7.3 | 41 |
| 214 | Apolipoprotein CIII overexpressing mice are predisposed to dietâ€induced hepatic steatosis and hepatic insulin resistance. Hepatology, 2011, 54, 1650-1660. | 7.3 | 114 |
| 215 | GPA protects the nigrostriatal dopamine system by enhancing mitochondrial function. Neurobiology of Disease, 2011, 43, 152-162. | 4.4 | 20 |
| 216 | Characterization of the Hyperphagic Response to Dietary Fat in the MC4R Knockout Mouse. Endocrinology, 2011, 152, 890-902. | 2.8 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Mouse Cardiac Acyl Coenzyme A Synthetase 1 Deficiency Impairs Fatty Acid Oxidation and Induces Cardiac Hypertrophy. Molecular and Cellular Biology, 2011, 31, 1252-1262. | 2.3 | 156 |
| 218 | Tumor Progression Locus 2 (TPL2) Regulates Obesity-Associated Inflammation and Insulin Resistance. Diabetes, 2011, 60, 1168-1176. | 0.6 | 47 |
| 219 | Diabetes in Mice With Selective Impairment of Insulin Action in Glut4-Expressing Tissues. Diabetes, 2011, 60, 700-709. | 0.6 | 48 |
| 220 | SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic Î²-Cell Function. Diabetes, 2011, 60, 890-898. | 0.6 | 197 |
| 221 | Hepatic insulin resistance in mice with hepatic overexpression of diacylglycerol acyltransferase 2. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5748-5752. | 7.1 | 139 |
| 222 | Reversal of muscle insulin resistance with exercise reduces postprandial hepatic de novo lipogenesis in insulin resistant individuals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13705-13709. | 7.1 | 150 |
| 223 | Reply to Monetti et al.: Hepatic steatosis and diacylglycerol-mediated hepatic insulin resistance in acyl-CoA:diacylglycerol acyltransferase 2 (DGAT2) transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E524-E524. | 7.1 | 1 |
| 224 | Influence of the Hepatic Eukaryotic Initiation Factor 2Î± (eIF2Î±) Endoplasmic Reticulum (ER) Stress Response Pathway on Insulin-mediated ER Stress and Hepatic and Peripheral Glucose Metabolism. Journal of Biological Chemistry, 2011, 286, 36163-36170. | 3.4 | 65 |
| 225 | Magnetic Resonance Spectroscopy Studies of Human Metabolism. Diabetes, 2011, 60, 1361-1369. | 0.6 | 31 |
| 226 | Hyperglucagonemia precedes a decline in insulin secretion and causes hyperglycemia in chronically glucose-infused rats. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E1174-E1183. | 3.5 | 39 |
| 227 | Lysophosphatidic Acid Activates Peroxisome Proliferator Activated Receptor-Î³ in CHO Cells That Over-Express Glycerol 3-Phosphate Acyltransferase-1. PLoS ONE, 2011, 6, e18932. | 2.5 | 41 |
| 228 | Impact of CD1d Deficiency on Metabolism. PLoS ONE, 2011, 6, e25478. | 2.5 | 68 |
| 229 | Indy knockdown in mice mimics elements of dietary restriction. Aging, 2011, 3, 701-701. | 3.1 | 7 |
| 230 | A common variant in the patatin-like phospholipase 3 gene (PNPLA3) is associated with fatty liver disease in obese children and adolescents. Hepatology, 2010, 52, 1281-1290. | 7.3 | 195 |
| 231 | Downregulation of ADIPOQ and PPARÎ³2 Gene Expression in Subcutaneous Adipose Tissue of Obese Adolescents With Hepatic Steatosis. Obesity, 2010, 18, 1911-1917. | 3.0 | 33 |
| 232 | Altered Brain Mitochondrial Metabolism in Healthy Aging as Assessed by in vivo Magnetic Resonance Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 211-221. | 4.3 | 223 |
| 233 | Diacylglycerol-mediated insulin resistance. Nature Medicine, 2010, 16, 400-402. | 30.7 | 385 |
| 234 | A high-fat, ketogenic diet causes hepatic insulin resistance in mice, despite increasing energy expenditure and preventing weight gain. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E808-E815. | 3.5 | 174 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. Journal of Lipid Research, 2010, 51, 3306-3315. | 4.2 | 128 |
| 236 | Cellularity and Adipogenic Profile of the Abdominal Subcutaneous Adipose Tissue From Obese Adolescents: Association With Insulin Resistance and Hepatic Steatosis. Diabetes, 2010, 59, 2288-2296. | 0.6 | 117 |
| 237 | Standard operating procedures for describing and performing metabolic tests of glucose homeostasis in mice. DMM Disease Models and Mechanisms, 2010, 3, 525-534. | 2.4 | 606 |
| 238 | Gene knockout of Acc2 has little effect on body weight, fat mass, or food intake. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7598-7603. | 7.1 | 93 |
| 239 | Deletion of the Î±-Arrestin Protein Txnip in Mice Promotes Adiposity and Adipogenesis While Preserving Insulin Sensitivity. Diabetes, 2010, 59, 1424-1434. | 0.6 | 131 |
| 240 | Glycerol-3-Phosphate Acyltransferase 1 Deficiency in ob/ob Mice Diminishes Hepatic Steatosis but Does Not Protect Against Insulin Resistance or Obesity. Diabetes, 2010, 59, 1321-1329. | 0.6 | 53 |
| 241 | Chylomicron- and VLDL-derived Lipids Enter the Heart through Different Pathways. Journal of Biological Chemistry, 2010, 285, 37976-37986. | 3.4 | 98 |
| 242 | Effects of Pioglitazone on Intramyocellular Fat Metabolism in Patients with Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 1916-1923. | 3.6 | 72 |
| 243 | Apolipoprotein C3 Gene Variants in Nonalcoholic Fatty Liver Disease. New England Journal of Medicine, 2010, 362, 1082-1089. | 27.0 | 384 |
| 244 | Regulation of mitochondrial biogenesis. Essays in Biochemistry, 2010, 47, 69-84. | 4.7 | 789 |
| 245 | Resistance to High-Fat Diet-Induced Obesity and Insulin Resistance in Mice with Very Long-Chain Acyl-CoA Dehydrogenase Deficiency. Cell Metabolism, 2010, 11, 402-411. | 16.2 | 75 |
| 246 | Targeted Expression of Catalase to Mitochondria Prevents Age-Associated Reductions in Mitochondrial Function and Insulin Resistance. Cell Metabolism, 2010, 12, 668-674. | 16.2 | 274 |
| 247 | Lipid-induced insulin resistance: unravelling the mechanism. Lancet, The, 2010, 375, 2267-2277. | 13.7 | 944 |
| 248 | The Role of Muscle Insulin Resistance in the Pathogenesis of Atherogenic Dyslipidemia and Nonalcoholic Fatty Liver Disease Associated with the Metabolic Syndrome. Annual Review of Nutrition, 2010, 30, 273-290. | 10.1 | 105 |
| 249 | The Contribution of Blood Lactate to Brain Energy Metabolism in Humans Measured by Dynamic<sup>13</sup>C Nuclear Magnetic Resonance Spectroscopy. Journal of Neuroscience, 2010, 30, 13983-13991. | 3.6 | 279 |
| 250 | Uncoupling Protein-2 Decreases the Lipogenic Actions of Ghrelin. Endocrinology, 2010, 151, 2078-2086. | 2.8 | 44 |
| 251 | The Metabolic Syndrome. , 2010, , 822-839. | | 2 |
| 252 | Resistance to thyroid hormone is associated with raised energy expenditure, muscle mitochondrial uncoupling, and hyperphagia. Journal of Clinical Investigation, 2010, 120, 1345-1354. | 8.2 | 90 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | PPARÎ³-induced cardiolipotoxicity in mice is ameliorated by PPARÎ± deficiency despite increases in fatty acid oxidation. Journal of Clinical Investigation, 2010, 120, 3443-3454. | 8.2 | 137 |
| 254 | Adipose Overexpression of Desnutrin Promotes Fatty Acid Use and Attenuates Diet-Induced Obesity. Diabetes, 2009, 58, 855-866. | 0.6 | 160 |
| 255 | Sensitivity of Lipid Metabolism and Insulin Signaling to Genetic Alterations in Hepatic Peroxisome Proliferatorâ€“Activated Receptor-Î³ Coactivator-1Î± Expression. Diabetes, 2009, 58, 1499-1508. | 0.6 | 135 |
| 256 | Mitochondrial Dysfunction Contributes to Impaired Insulin Secretion in INS-1 Cells with Dominant-negative Mutations of HNF-1Î± and in HNF-1Î±-deficient Islets. Journal of Biological Chemistry, 2009, 284, 16808-16821. | 3.4 | 27 |
| 257 | Fasting hyperglycemia is not associated with increased expression of PEPCK or G6Pc in patients with Type 2 Diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12121-12126. | 7.1 | 139 |
| 258 | Increased Energy Expenditure and Insulin Sensitivity in the High Bone Mass Î”FosB Transgenic Mice. Endocrinology, 2009, 150, 135-143. | 2.8 | 20 |
| 259 | Regulation of net hepatic glycogenolysis and gluconeogenesis by epinephrine in humans. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E231-E235. | 3.5 | 48 |
| 260 | Skeletal Muscle-Specific Deletion of Lipoprotein Lipase Enhances Insulin Signaling in Skeletal Muscle but Causes Insulin Resistance in Liver and Other Tissues. Diabetes, 2009, 58, 116-124. | 0.6 | 94 |
| 261 | Chapter 21 Assessment of In Vivo Mitochondrial Metabolism by Magnetic Resonance Spectroscopy. Methods in Enzymology, 2009, 457, 373-393. | 1.0 | 37 |
| 262 | PGC-1Î± negatively regulates hepatic FGF21 expression by modulating the heme/Rev-ErbÎ± axis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22510-22515. | 7.1 | 114 |
| 263 | Paradoxical Coupling of Triglyceride Synthesis and Fatty Acid Oxidation in Skeletal Muscle Overexpressing DGAT1. Diabetes, 2009, 58, 2516-2524. | 0.6 | 55 |
| 264 | Phosphoenolpyruvate Cycling via Mitochondrial Phosphoenolpyruvate Carboxykinase Links Anaplerosis and Mitochondrial GTP with Insulin Secretion. Journal of Biological Chemistry, 2009, 284, 26578-26590. | 3.4 | 126 |
| 265 | SirT1 knockdown in liver decreases basal hepatic glucose production and increases hepatic insulin responsiveness in diabetic rats. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11288-11293. | 7.1 | 169 |
| 266 | Liver-specific Loss of Long Chain Acyl-CoA Synthetase-1 Decreases Triacylglycerol Synthesis and Î²-Oxidation and Alters Phospholipid Fatty Acid Composition. Journal of Biological Chemistry, 2009, 284, 27816-27826. | 3.4 | 188 |
| 267 | STAT3 inhibition of gluconeogenesis is downregulated by SirT1. Nature Cell Biology, 2009, 11, 492-500. | 10.3 | 301 |
| 268 | AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency. Nature Medicine, 2009, 15, 159-168. | 30.7 | 234 |
| 269 | The Role of Peroxisome Proliferator-Activated Receptor Î³ Coactivator-1 Î² in the Pathogenesis of Fructose-Induced Insulin Resistance. Cell Metabolism, 2009, 9, 252-264. | 16.2 | 179 |
| 270 | Akt2 Is Required for Hepatic Lipid Accumulation in Models of Insulin Resistance. Cell Metabolism, 2009, 10, 405-418. | 16.2 | 241 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Prevention of Hepatic Steatosis and Hepatic Insulin Resistance by Knockdown of cAMP Response Element-Binding Protein. Cell Metabolism, 2009, 10, 499-506. | 16.2 | 91 |
| 272 | MAPK phosphatase-1 facilitates the loss of oxidative myofibers associated with obesity in mice. Journal of Clinical Investigation, 2009, 119, 3817-3829. | 8.2 | 57 |
| 273 | Comparative MR study of hepatic fat quantification using singleâ€voxel proton spectroscopy, twoâ€point dixon and threeâ€point IDEAL. Magnetic Resonance in Medicine, 2008, 59, 521-527. | 3.0 | 188 |
| 274 | UCP2 mediates ghrelinâ€™s action on NPY/AgRP neurons by lowering free radicals. Nature, 2008, 454, 846-851. | 27.8 | 633 |
| 275 | Dual role of proapoptotic BAD in insulin secretion and beta cell survival. Nature Medicine, 2008, 14, 144-153. | 30.7 | 285 |
| 276 | Brainâ€specific carnitine palmitoylâ€transferaseâ€1c: role in CNS fatty acid metabolism, food intake, and body weight. Journal of Neurochemistry, 2008, 105, 1550-1559. | 3.9 | 80 |
| 277 | N-acylphosphatidylethanolamine, a Gut- Derived Circulating Factor Induced by Fat Ingestion, Inhibits Food Intake. Cell, 2008, 135, 813-824. | 28.9 | 143 |
| 278 | Paradoxical effects of increased expression of PGC-1Î± on muscle mitochondrial function and insulin-stimulated muscle glucose metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19926-19931. | 7.1 | 257 |
| 279 | Increased substrate oxidation and mitochondrial uncoupling in skeletal muscle of endurance-trained individuals. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16701-16706. | 7.1 | 94 |
| 280 | Reduced heart size and increased myocardial fuel substrate oxidation in ACC2 mutant mice. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H256-H265. | 3.2 | 33 |
| 281 | Muscle-Specific IRS-1 Serâ†'Ala Transgenic Mice Are Protected From Fat-Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2008, 57, 2644-2651. | 0.6 | 102 |
| 282 | Resistance to High-Fat Dietâ€"Induced Obesity but Exacerbated Insulin Resistance in Mice Overexpressing Preadipocyte Factor-1 (Pref-1). Diabetes, 2008, 57, 3258-3266. | 0.6 | 78 |
| 283 | A Prevalent Variant in PPP1R3A Impairs Glycogen Synthesis and Reduces Muscle Glycogen Content in Humans and Mice. PLoS Medicine, 2008, 5, e27. | 8.4 | 44 |
| 284 | Cytosolic and Mitochondrial Malic Enzyme Isoforms Differentially Control Insulin Secretion. Journal of Biological Chemistry, 2007, 282, 200-207. | 3.4 | 123 |
| 285 | Hepatic Overexpression of Glycerol-sn-3-phosphate Acyltransferase 1 in Rats Causes Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 14807-14815. | 3.4 | 108 |
| 286 | Loss of the Par-1b/MARK2 polarity kinase leads to increased metabolic rate, decreased adiposity, and insulin hypersensitivity in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5680-5685. | 7.1 | 70 |
| 287 | Mitochondrial dysfunction due to long-chain Acyl-CoA dehydrogenase deficiency causes hepatic steatosis and hepatic insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17075-17080. | 7.1 | 241 |
| 288 | Regulation of hypothalamic malonyl-CoA by central glucose and leptin. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19285-19290. | 7.1 | 113 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Obesity-associated improvements in metabolic profile through expansion of adipose tissue. Journal of Clinical Investigation, 2007, 117, 2621-2637. | 8.2 | 1,104 |
| 290 | The role of skeletal muscle insulin resistance in the pathogenesis of the metabolic syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12587-12594. | 7.1 | 599 |
| 291 | Continuous fat oxidation in acetylâ€“CoA carboxylase 2 knockout mice increases total energy expenditure, reduces fat mass, and improves insulin sensitivity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16480-16485. | 7.1 | 277 |
| 292 | n-3 Fatty Acids Preserve Insulin Sensitivity In Vivo in a Peroxisome Proliferator-Activated Receptor-Â-Dependent Manner. Diabetes, 2007, 56, 1034-1041. | 0.6 | 212 |
| 293 | Aging-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. Cell Metabolism, 2007, 5, 151-156. | 16.2 | 458 |
| 294 | Mitochondrial GTP Regulates Glucose-Stimulated Insulin Secretion. Cell Metabolism, 2007, 5, 253-264. | 16.2 | 143 |
| 295 | Synaptic Glutamate Release by Ventromedial Hypothalamic Neurons Is Part of the Neurocircuitry that Prevents Hypoglycemia. Cell Metabolism, 2007, 5, 383-393. | 16.2 | 358 |
| 296 | Impaired Mitochondrial Substrate Oxidation in Muscle of Insulin-Resistant Offspring of Type 2 Diabetic Patients. Diabetes, 2007, 56, 1376-1381. | 0.6 | 391 |
| 297 | Suppression of Diacylglycerol Acyltransferase-2 (DGAT2), but Not DGAT1, with Antisense Oligonucleotides Reverses Diet-induced Hepatic Steatosis and Insulin Resistance. Journal of Biological Chemistry, 2007, 282, 22678-22688. | 3.4 | 319 |
| 298 | Disordered Lipid Metabolism and the Pathogenesis of Insulin Resistance. Physiological Reviews, 2007, 87, 507-520. | 28.8 | 873 |
| 299 | Interethnic Differences in Muscle, Liver and Abdominal Fat Partitioning in Obese Adolescents. PLoS ONE, 2007, 2, e569. | 2.5 | 124 |
| 300 | Muscle-specific knockout of PKC-Î» impairs glucose transport and induces metabolic and diabetic syndromes. Journal of Clinical Investigation, 2007, 117, 2289-2301. | 8.2 | 140 |
| 301 | Anorectic estrogen mimics leptin's effect on the rewiring of melanocortin cells and Stat3 signaling in obese animals. Nature Medicine, 2007, 13, 89-94. | 30.7 | 373 |
| 302 | Measurements of the anaplerotic rate in the human cerebral cortex using13C magnetic resonance spectroscopy and [1-13C] and [2-13C] glucose. Journal of Neurochemistry, 2007, 100, 73-86. | 3.9 | 82 |
| 303 | Overexpression of uncoupling protein 3 in skeletal muscle protects against fat-induced insulin resistance. Journal of Clinical Investigation, 2007, 117, 1995-2003. | 8.2 | 162 |
| 304 | Inhibition of protein kinase CÎµ prevents hepatic insulin resistance in nonalcoholic fatty liver disease. Journal of Clinical Investigation, 2007, 117, 739-745. | 8.2 | 427 |
| 305 | Abnormal glucose homeostasis in skeletal muscleâ€“specific PGC-1Î± knockout mice reveals skeletal muscleâ€“pancreatic Î² cell crosstalk. Journal of Clinical Investigation, 2007, 117, 3463-3474. | 8.2 | 302 |
| 306 | Lipid metabolism and adipokine levels in fatty acid-binding protein null and transgenic mice. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E814-E823. | 3.5 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Molecular Mechanisms of Insulin Resistance in Humans and Their Potential Links With Mitochondrial Dysfunction. Diabetes, 2006, 55, S9-S15. | 0.6 | 730 |
| 308 | Etiology of Insulin Resistance. American Journal of Medicine, 2006, 119, S10-S16. | 1.5 | 646 |
| 309 | Mice lacking MAP kinase phosphatase-1 have enhanced MAP kinase activity and resistance to diet-induced obesity. Cell Metabolism, 2006, 4, 61-73. | 16.2 | 197 |
| 310 | Hypomorphic mutation of PGC-1Î² causes mitochondrial dysfunction and liver insulin resistance. Cell Metabolism, 2006, 4, 453-464. | 16.2 | 162 |
| 311 | The SHP-1 protein tyrosine phosphatase negatively modulates glucose homeostasis. Nature Medicine, 2006, 12, 549-556. | 30.7 | 141 |
| 312 | New Insights into the Pathogenesis of Insulin Resistance in Humans Using Magnetic Resonance Spectroscopy. Obesity, 2006, 14, 34S-40S. | 3.0 | 84 |
| 313 | The role of AMPâ€activated protein kinase in mitochondrial biogenesis. Journal of Physiology, 2006, 574, 33-39. | 2.9 | 310 |
| 314 | Activation of the farnesoid X receptor improves lipid metabolism in combined hyperlipidemic hamsters. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E716-E722. | 3.5 | 84 |
| 315 | Mechanism of glucose intolerance in mice with dominant negative mutation of CEACAM1. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E517-E524. | 3.5 | 42 |
| 316 | Immunoneutralization of Endogenous Glucagon Reduces Hepatic Glucose Output and Improves Long-Term Glycemic Control in Diabetic ob/ob Mice. Diabetes, 2006, 55, 2843-2848. | 0.6 | 76 |
| 317 | Targeting Foxo1 in Mice Using Antisense Oligonucleotide Improves Hepatic and Peripheral Insulin Action. Diabetes, 2006, 55, 2042-2050. | 0.6 | 160 |
| 318 | Increased Brain Monocarboxylic Acid Transport and Utilization in Type 1 Diabetes. Diabetes, 2006, 55, 929-934. | 0.6 | 117 |
| 319 | Increased prevalence of insulin resistance and nonalcoholic fatty liver disease in Asian-Indian men. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18273-18277. | 7.1 | 354 |
| 320 | Regulation of Metabolic Responses by Adipocyte/ Macrophage Fatty Acid-Binding Proteins in Leptin-Deficient Mice. Diabetes, 2006, 55, 1915-1922. | 0.6 | 85 |
| 321 | Fish Oil Regulates Adiponectin Secretion by a Peroxisome Proliferatorâ€“Activated Receptor-Î³â€“Dependent Mechanism in Mice. Diabetes, 2006, 55, 924-928. | 0.6 | 254 |
| 322 | Urocortin 2 modulates glucose utilization and insulin sensitivity in skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16580-16585. | 7.1 | 65 |
| 323 | Reversal of diet-induced hepatic steatosis and hepatic insulin resistance by antisense oligonucleotide inhibitors of acetyl-CoA carboxylases 1 and 2. Journal of Clinical Investigation, 2006, 116, 817-824. | 8.2 | 377 |
| 324 | MRS Studies of the Role of the Muscle Glycogen Synthesis Pathway in the Pathophysiology of Type 2 Diabetes. , 2005, , 45-57. | | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | Hormone-sensitive lipase knockout mice have increased hepatic insulin sensitivity and are protected from short-term diet-induced insulin resistance in skeletal muscle and heart. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E30-E39. | 3.5 | 79 |
| 326 | Decreased Insulin-Stimulated ATP Synthesis and Phosphate Transport in Muscle of Insulin-Resistant Offspring of Type 2 Diabetic Parents. PLoS Medicine, 2005, 2, e233. | 8.4 | 279 |
| 327 | Mechanisms of Insulin Resistance in Humans and Possible Links With Inflammation. Hypertension, 2005, 45, 828-833. | 2.7 | 231 |
| 328 | Effect of a Sustained Reduction in Plasma Free Fatty Acid Concentration on Intramuscular Long-Chain Fatty Acyl-CoAs and Insulin Action in Type 2 Diabetic Patients. Diabetes, 2005, 54, 3148-3153. | 0.6 | 162 |
| 329 | The â€œObese Insulin-Sensitiveâ€•Adolescent: Importance of Adiponectin and Lipid Partitioning. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 3731-3737. | 3.6 | 152 |
| 330 | The Role of Intramyocellular Lipids during Hypoglycemia in Patients with Intensively Treated Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 5559-5565. | 3.6 | 24 |
| 331 | Reversal of Nonalcoholic Hepatic Steatosis, Hepatic Insulin Resistance, and Hyperglycemia by Moderate Weight Reduction in Patients With Type 2 Diabetes. Diabetes, 2005, 54, 603-608. | 0.6 | 769 |
| 332 | Adipocyte-Specific Overexpression of FOXC2 Prevents Diet-Induced Increases in Intramuscular Fatty Acyl CoA and Insulin Resistance. Diabetes, 2005, 54, 1657-1663. | 0.6 | 68 |
| 333 | Mitochondrial Glycerol-3-phosphate Acyltransferase-1 Is Essential inLiver for the Metabolism of ExcessAcyl-CoAs. Journal of Biological Chemistry, 2005, 280, 25629-25636. | 3.4 | 91 |
| 334 | Mitochondrial Dysfunction and Type 2 Diabetes. Science, 2005, 307, 384-387. | 12.6 | 1,802 |
| 335 | Prevention of hepatic steatosis and hepatic insulin resistance in mitochondrial acyl-CoA:glycerol-sn-3-phosphate acyltransferase 1 knockout mice. Cell Metabolism, 2005, 2, 55-65. | 16.2 | 235 |
| 336 | Reduced mitochondrial density and increased IRS-1 serine phosphorylation in muscle of insulin-resistant offspring of type 2 diabetic parents. Journal of Clinical Investigation, 2005, 115, 3587-3593. | 8.2 | 689 |
| 337 | A Cluster of Metabolic Defects Caused by Mutation in a Mitochondrial tRNA. Science, 2004, 306, 1190-1194. | 12.6 | 328 |
| 338 | Effects of Rexinoids on Glucose Transport and Insulin-mediated Signaling in Skeletal Muscles of Diabetic (db/db) Mice. Journal of Biological Chemistry, 2004, 279, 19721-19731. | 3.4 | 49 |
| 339 | 13C NMR Isotopomer Analysis of Anaplerotic Pathways in INS-1 Cells. Journal of Biological Chemistry, 2004, 279, 44370-44375. | 3.4 | 113 |
| 340 | Disruption of neural signal transducer and activator of transcription 3 causes obesity, diabetes, infertility, and thermal dysregulation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4661-4666. | 7.1 | 341 |
| 341 | Liver fatty acidâ€binding protein is required for high rates of hepatic fatty acid oxidation but not for the action of PPARâ€Î± in fasting mice. FASEB Journal, 2004, 18, 1-18. | 0.5 | 90 |
| 342 | Transgenic Overexpression of Protein-tyrosine Phosphatase 1B in Muscle Causes Insulin Resistance, but Overexpression with Leukocyte Antigen-related Phosphatase Does Not Additively Impair Insulin Action. Journal of Biological Chemistry, 2004, 279, 24844-24851. | 3.4 | 144 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | Alterations in Postprandial Hepatic Glycogen Metabolism in Type 2 Diabetes. Diabetes, 2004, 53, 3048-3056. | 0.6 | 267 |
| 344 | Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. Nature Medicine, 2004, 10, 268-274. | 30.7 | 414 |
| 345 | Mechanism of Hepatic Insulin Resistance in Non-alcoholic Fatty Liver Disease. Journal of Biological Chemistry, 2004, 279, 32345-32353. | 3.4 | 1,069 |
| 346 | Impaired Mitochondrial Activity in the Insulin-Resistant Offspring of Patients with Type 2 Diabetes. New England Journal of Medicine, 2004, 350, 664-671. | 27.0 | 1,969 |
| 347 | Defects in Adaptive Energy Metabolism with CNS-Linked Hyperactivity in PGC-1Î± Null Mice. Cell, 2004, 119, 121-135. | 28.9 | 1,074 |
| 348 | 40th EASD Annual Meeting of the European Association for the Study of Diabetes. Diabetologia, 2004, 47, A1-A464. | 6.3 | 41 |
| 349 | Unraveling the Cellular Mechanism of Insulin Resistance in Humans: New Insights from Magnetic Resonance Spectroscopy. Physiology, 2004, 19, 183-190. | 3.1 | 120 |
| 350 | Inactivation of fatty acid transport protein 1 prevents fat-induced insulin resistance in skeletal muscle. Journal of Clinical Investigation, 2004, 113, 756-763. | 8.2 | 195 |
| 351 | PKC-Î¸ knockout mice are protected from fat-induced insulin resistance. Journal of Clinical Investigation, 2004, 114, 823-827. | 8.2 | 371 |
| 352 | PKC-Î¸ knockout mice are protected from fat-induced insulin resistance. Journal of Clinical Investigation, 2004, 114, 823-827. | 8.2 | 226 |
| 353 | Inactivation of fatty acid transport protein 1 prevents fat-induced insulin resistance in skeletal muscle. Journal of Clinical Investigation, 2004, 113, 756-763. | 8.2 | 99 |
| 354 | Phosphoinositide profiling in complex lipid mixtures using electrospray ionization mass spectrometry. Nature Biotechnology, 2003, 21, 813-817. | 17.5 | 226 |
| 355 | Prediabetes in obese youth: a syndrome of impaired glucose tolerance, severe insulin resistance, and altered myocellular and abdominal fat partitioning. Lancet, The, 2003, 362, 951-957. | 13.7 | 441 |
| 356 | A comparison of 13C NMR measurements of the rates of glutamine synthesis and the tricarboxylic acid cycle during oral and intravenous administration of [1-13C]glucose. Brain Research Protocols, 2003, 10, 181-190. | 1.6 | 70 |
| 357 | Genetic Modulation of PPARÎ³ Phosphorylation Regulates Insulin Sensitivity. Developmental Cell, 2003, 5, 657-663. | 7.0 | 189 |
| 358 | Differential Effects of Rosiglitazone on Skeletal Muscle and Liver Insulin Resistance in A-ZIP/F-1 Fatless Mice. Diabetes, 2003, 52, 1311-1318. | 0.6 | 87 |
| 359 | Insulin Resistance in Tetracycline-Repressible Munc18c Transgenic Mice. Diabetes, 2003, 52, 1910-1917. | 0.6 | 40 |
| 360 | Low Adiponectin Levels in Adolescent Obesity: A Marker of Increased Intramyocellular Lipid Accumulation. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 2014-2018. | 3.6 | 172 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Local Lactate Perfusion of the Ventromedial Hypothalamus Suppresses Hypoglycemic Counterregulation. Diabetes, 2003, 52, 663-666. | 0.6 | 113 |
| 362 | Mitochondrial Dysfunction in the Elderly: Possible Role in Insulin Resistance. Science, 2003, 300, 1140-1142. | 12.6 | 1,848 |
| 363 | Physiological role of AMP-activated protein kinase in the heart: graded activation during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E629-E636. | 3.5 | 150 |
| 364 | Pioglitazone Improves Insulin Sensitivity Among Nondiabetic Patients With a Recent Transient Ischemic Attack or Ischemic Stroke. Stroke, 2003, 34, 1431-1436. | 2.0 | 72 |
| 365 | Defective Activation of Skeletal Muscle and Adipose Tissue Lipolysis in Type 1 Diabetes Mellitus during Hypoglycemia. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 1503-1511. | 3.6 | 33 |
| 366 | Effects of depletion exercise and light training on muscle glycogen supercompensation in men. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E1304-E1311. | 3.5 | 30 |
| 367 | Skeletal muscle lipid metabolism with obesity. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E741-E747. | 3.5 | 280 |
| 368 | Inclusion of Low Amounts of Fructose With an Intraduodenal Glucose Load Markedly Reduces Postprandial Hyperglycemia and Hyperinsulinemia in the Conscious Dog. Diabetes, 2002, 51, 469-478. | 0.6 | 67 |
| 369 | Assessment of Skeletal Muscle Triglyceride Content by 1H Nuclear Magnetic Resonance Spectroscopy in Lean and Obese Adolescents. Diabetes, 2002, 51, 1022-1027. | 0.6 | 440 |
| 370 | Hepatic Glycogen Metabolism in Type 1 Diabetes After Long-Term Near Normoglycemia. Diabetes, 2002, 51, 49-54. | 0.6 | 77 |
| 371 | Mechanism by Which Fatty Acids Inhibit Insulin Activation of Insulin Receptor Substrate-1 (IRS-1)-associated Phosphatidylinositol 3-Kinase Activity in Muscle. Journal of Biological Chemistry, 2002, 277, 50230-50236. | 3.4 | 1,254 |
| 372 | Adrenalectomy Improves Diabetes in A-ZIP/F-1 Lipoatrophic Mice by Increasing Both Liver and Muscle Insulin Sensitivity. Diabetes, 2002, 51, 2113-2118. | 0.6 | 42 |
| 373 | Fatty Acid Infusion Selectively Impairs Insulin Action on Akt1 and Protein Kinase C Î»/Î¶ but Not on Glycogen Synthase Kinase-3. Journal of Biological Chemistry, 2002, 277, 32915-32922. | 3.4 | 78 |
| 374 | Effects of a Novel Glycogen Synthase Kinase-3 Inhibitor on Insulin-Stimulated Glucose Metabolism in Zucker Diabetic Fatty (fa/fa) Rats. Diabetes, 2002, 51, 2903-2910. | 0.6 | 214 |
| 375 | Effect of Weight Loss on Insulin Sensitivity and Intramuscular Long-Chain Fatty Acyl-CoAs in Morbidly Obese Subjects. Diabetes, 2002, 51, 2959-2963. | 0.6 | 131 |
| 376 | The Effects of Rosiglitazone on Insulin Sensitivity, Lipolysis, and Hepatic and Skeletal Muscle Triglyceride Content in Patients With Type 2 Diabetes. Diabetes, 2002, 51, 797-802. | 0.6 | 602 |
| 377 | Contrasting effects of fish oil and safflower oil on hepatic peroxisomal and tissue lipid content. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E395-E401. | 3.5 | 132 |
| 378 | AMP kinase is required for mitochondrial biogenesis in skeletal muscle in response to chronic energy deprivation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15983-15987. | 7.1 | 895 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Pathogenesis of skeletal muscle insulin resistance in type 2 diabetes mellitus. American Journal of Cardiology, 2002, 90, 11-18. | 1.6 | 297 |
| 380 | [2,4-13C2]-Î²-Hydroxybutyrate Metabolism in Human Brain. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 890-898. | 4.3 | 83 |
| 381 | Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. Journal of Clinical Investigation, 2002, 109, 1321-1326. | 8.2 | 480 |
| 382 | Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. Journal of Clinical Investigation, 2002, 109, 1345-1350. | 8.2 | 552 |
| 383 | Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. Journal of Clinical Investigation, 2002, 109, 1321-1326. | 8.2 | 304 |
| 384 | Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. Journal of Clinical Investigation, 2002, 109, 1345-1350. | 8.2 | 373 |
| 385 | Astroglial Contribution to Brain Energy Metabolism in Humans Revealed by<sup>13</sup>C Nuclear Magnetic Resonance Spectroscopy: Elucidation of the Dominant Pathway for Neurotransmitter Glutamate Repletion and Measurement of Astrocytic Oxidative Metabolism. Journal of Neuroscience, 2002, 22, 1523-1531. | 3.6 | 351 |
| 386 | Cellular mechanism of insulin resistance in skeletal muscle. Journal of the Royal Society of Medicine, 2002, 95 Suppl 42, 8-13. | 2.0 | 13 |
| 387 | Insulin Resistance and a Diabetes Mellitus-Like Syndrome in Mice Lacking the Protein Kinase Akt2 (PKBbeta ). Science, 2001, 292, 1728-1731. | 12.6 | 1,652 |
| 388 | Contribution of net hepatic glycogen synthesis to disposal of an oral glucose load in humans. Metabolism: Clinical and Experimental, 2001, 50, 598-601. | 3.4 | 40 |
| 389 | Uncoupling Protein-2 Negatively Regulates Insulin Secretion and Is a Major Link between Obesity, Î² Cell Dysfunction, and Type 2 Diabetes. Cell, 2001, 105, 745-755. | 28.9 | 867 |
| 390 | Chronic activation of AMP kinase results in NRF-1 activation and mitochondrial biogenesis. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E1340-E1346. | 3.5 | 449 |
| 391 | Lipid-dependent control of hepatic glycogen stores in healthy humans. Diabetologia, 2001, 44, 48-54. | 6.3 | 81 |
| 392 | Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. Nature, 2001, 409, 729-733. | 27.8 | 1,058 |
| 393 | Functional inactivation of the IGF-I and insulin receptors in skeletal muscle causes type 2 diabetes. Genes and Development, 2001, 15, 1926-1934. | 5.9 | 323 |
| 394 | Tissue-specific overexpression of lipoprotein lipase causes tissue-specific insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7522-7527. | 7.1 | 628 |
| 395 | Overexpression of the LAR (leukocyte antigen-related) protein-tyrosine phosphatase in muscle causes insulin resistance. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5187-5192. | 7.1 | 111 |
| 396 | Effect of 5-Aminoimidazole-4-Carboxamide-1-Â-D-Ribofuranoside Infusion on In Vivo Glucose and Lipid Metabolism in Lean and Obese Zucker Rats. Diabetes, 2001, 50, 1076-1082. | 0.6 | 261 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Stimulating Effects of Low-Dose Fructose on Insulin-Stimulated Hepatic Glycogen Synthesis in Humans. Diabetes, 2001, 50, 1263-1268. | 0.6 | 123 |
| 398 | In Vivo Effects of Uncoupling Protein-3 Gene Disruption on Mitochondrial Energy Metabolism. Journal of Biological Chemistry, 2001, 276, 20240-20244. | 3.4 | 124 |
| 399 | NMR Spectroscopy in Î² Cell Engineering and Islet Transplantation. Annals of the New York Academy of Sciences, 2001, 944, 96-119. | 3.8 | 35 |
| 400 | Glucose toxicity and the development of diabetes in mice with muscle-specific inactivation of GLUT4. Journal of Clinical Investigation, 2001, 108, 153-160. | 8.2 | 162 |
| 401 | Insulin/IGF-1 and TNF-Î± stimulate phosphorylation of IRS-1 at inhibitory Ser307 via distinct pathways. Journal of Clinical Investigation, 2001, 107, 181-189. | 8.2 | 508 |
| 402 | Prevention of fat-induced insulin resistance by salicylate. Journal of Clinical Investigation, 2001, 108, 437-446. | 8.2 | 597 |
| 403 | Syntaxin 4 heterozygous knockout mice develop muscle insulin resistance. Journal of Clinical Investigation, 2001, 107, 1311-1318. | 8.2 | 98 |
| 404 | Effect of triiodothyronine on mitochondrial energy coupling in human skeletal muscle. Journal of Clinical Investigation, 2001, 108, 733-737. | 8.2 | 135 |
| 405 | Nuclear Magnetic Resonance Studies of Hepatic Glucose Metabolism in Humans. Endocrine Reviews, 2001, 56, 219-238. | 6.7 | 97 |
| 406 | Intense exercise stimulates albumin synthesis in the upright posture. Journal of Applied Physiology, 2000, 88, 41-46. | 2.5 | 59 |
| 407 | Glycogen loading alters muscle glycogen resynthesis after exercise. Journal of Applied Physiology, 2000, 88, 698-704. | 2.5 | 36 |
| 408 | Transgenic mice overexpressing GLUT-1 protein in muscle exhibit increased muscle glycogenesis after exercise. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E588-E592. | 3.5 | 9 |
| 409 | Surgical implantation of adipose tissue reverses diabetes in lipoatrophic mice. Journal of Clinical Investigation, 2000, 105, 271-278. | 8.2 | 554 |
| 410 | 13C/31P NMR Assessment of Mitochondrial Energy Coupling in Skeletal Muscle of Awake Fed and Fasted Rats. Journal of Biological Chemistry, 2000, 275, 39279-39286. | 3.4 | 50 |
| 411 | Regulation of myocardial [<sup>13</sup>C]glucose metabolism in conscious rats. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H375-H381. | 3.2 | 15 |
| 412 | Mechanism of muscle glycogen autoregulation in humans. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E663-E668. | 3.5 | 49 |
| 413 | Mechanism of troglitazone action in type 2 diabetes. Diabetes, 2000, 49, 827-831. | 0.6 | 130 |
| 414 | Assessment of mitochondrial energy coupling in vivo by 13C/31P NMR. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6880-6884. | 7.1 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Effects of free fatty acid elevation on postabsorptive endogenous glucose production and gluconeogenesis in humans. Diabetes, 2000, 49, 701-707. | 0.6 | 243 |
| 416 | Intramuscular Glycogen and Intramyocellular Lipid Utilization during Prolonged Exercise and Recovery in Man: A 13C and 1H Nuclear Magnetic Resonance Spectroscopy Study1. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 748-754. | 3.6 | 150 |
| 417 | Contrasting Effects of IRS-1 Versus IRS-2 Gene Disruption on Carbohydrate and Lipid Metabolism in Vivo. Journal of Biological Chemistry, 2000, 275, 38990-38994. | 3.4 | 247 |
| 418 | Effects of Caffeine on Muscle Glycogen Utilization and the Neuroendocrine Axis during Exercise<sup>1</sup>. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 2170-2175. | 3.6 | 93 |
| 419 | Mechanism of Insulin Resistance in A-ZIP/F-1 Fatless Mice. Journal of Biological Chemistry, 2000, 275, 8456-8460. | 3.4 | 379 |
| 420 | Persistent Changes in Myocardial Glucose Metabolism In Vivo During Reperfusion of a Limited-Duration Coronary Occlusion. Circulation, 2000, 101, 917-922. | 1.6 | 65 |
| 421 | Cellular mechanisms of insulin resistance. Journal of Clinical Investigation, 2000, 106, 171-176. | 8.2 | 2,199 |
| 422 | Loss of Insulin Signaling in Hepatocytes Leads to Severe Insulin Resistance and Progressive Hepatic Dysfunction. Molecular Cell, 2000, 6, 87-97. | 9.7 | 1,077 |
| 423 | Mechanism by which metformin reduces glucose production in type 2 diabetes. Diabetes, 2000, 49, 2063-2069. | 0.6 | 910 |
| 424 | Increased Energy Expenditure, Decreased Adiposity, and Tissue-Specific Insulin Sensitivity in Protein-Tyrosine Phosphatase 1B-Deficient Mice. Molecular and Cellular Biology, 2000, 20, 5479-5489. | 2.3 | 1,150 |
| 425 | Redistribution of substrates to adipose tissue promotes obesity in mice with selective insulin resistance in muscle. Journal of Clinical Investigation, 2000, 105, 1791-1797. | 8.2 | 283 |
| 426 | Intramuscular Glycogen and Intramyocellular Lipid Utilization during Prolonged Exercise and Recovery in Man: A 13C and 1H Nuclear Magnetic Resonance Spectroscopy Study. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 748-754. | 3.6 | 132 |
| 427 | Effects of Caffeine on Muscle Glycogen Utilization and the Neuroendocrine Axis during Exercise. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 2170-2175. | 3.6 | 69 |
| 428 | Effects of free fatty acids on glucose transport and IRS-1â€“associated phosphatidylinositol 3-kinase activity. Journal of Clinical Investigation, 1999, 103, 253-259. | 8.2 | 1,063 |
| 429 | Effect of AMPK activation on muscle glucose metabolism in conscious rats. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E938-E944. | 3.5 | 191 |
| 430 | A critical evaluation of mass isotopomer distribution analysis of gluconeogenesis in vivo. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E154-E160. | 3.5 | 33 |
| 431 | Contributions of net hepatic glycogenolysis and gluconeogenesis to glucose production in cirrhosis. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E529-E535. | 3.5 | 57 |
| 432 | Metabolic control analysis of insulin-stimulated glucose disposal in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E505-E512. | 3.5 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | Translocation of myocardial GLUT-4 and increased glucose uptake through activation of AMPK by AICAR. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H643-H649. | 3.2 | 374 |
| 434 | Chronic hypoglycemia and diabetes impair counterregulation induced by localized 2-deoxy-glucose perfusion of the ventromedial hypothalamus in rats. Diabetes, 1999, 48, 584-587. | 0.6 | 78 |
| 435 | Differential effects of safflower oil versus fish oil feeding on insulin-stimulated glycogen synthesis, glycolysis, and pyruvate dehydrogenase flux in skeletal muscle: a 13C nuclear magnetic resonance study.. Diabetes, 1999, 48, 134-140. | 0.6 | 99 |
| 436 | Determination of the rate of the glutamate/glutamine cycle in the human brain by in vivo <sup>13</sup> C NMR. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8235-8240. | 7.1 | 432 |
| 437 | Impaired Glucose Transport as a Cause of Decreased Insulin-Stimulated Muscle Glycogen Synthesis in Type 2 Diabetes. New England Journal of Medicine, 1999, 341, 240-246. | 27.0 | 562 |
| 438 | Intramyocellular lipid concentrations are correlated with insulin sensitivity in humans: a 1 H NMR spectroscopy study. Diabetologia, 1999, 42, 113-116. | 6.3 | 1,118 |
| 439 | Regulation of myocardial glucose uptake and transport during ischemia and energetic stress. American Journal of Cardiology, 1999, 83, 25-30. | 1.6 | 264 |
| 440 | Cellular mechanisms of insulin resistance in humans. American Journal of Cardiology, 1999, 84, 3-10. | 1.6 | 144 |
| 441 | APPLICATIONS OF NMR SPECTROSCOPY TO STUDY MUSCLE GLYCOGEN METABOLISM IN MAN. Annual Review of Medicine, 1999, 50, 277-290. | 12.2 | 62 |
| 442 | Free fatty acid-induced insulin resistance is associated with activation of protein kinase C theta and alterations in the insulin signaling cascade.. Diabetes, 1999, 48, 1270-1274. | 0.6 | 1,080 |
| 443 | Preliminary Evidence of Low Cortical GABA Levels in Localized<sup>1</sup>H-MR Spectra of Alcohol-Dependent and Hepatic Encephalopathy Patients. American Journal of Psychiatry, 1999, 156, 952-954. | 7.2 | 146 |
| 444 | Disruption of IRS-2 causes type 2 diabetes in mice. Nature, 1998, 391, 900-904. | 27.8 | 1,607 |
| 445 | Efficacy and Metabolic Effects of Metformin and Troglitazone in Type II Diabetes Mellitus. New England Journal of Medicine, 1998, 338, 867-873. | 27.0 | 737 |
| 446 | 13C/31P NMR studies on the mechanism of insulin resistance in obesity. Diabetes, 1998, 47, 381-386. | 0.6 | 103 |
| 447 | Additive Effects of Hyperinsulinemia and Ischemia on Myocardial GLUT1 and GLUT4 Translocation In Vivo. Circulation, 1998, 98, 2180-2186. | 1.6 | 77 |
| 448 | Transgenic mice deficient in the LAR protein-tyrosine phosphatase exhibit profound defects in glucose homeostasis. Diabetes, 1998, 47, 493-497. | 0.6 | 109 |
| 449 | Metabolic Effects of Troglitazone Monotherapy in Type 2 Diabetes Mellitus. Annals of Internal Medicine, 1998, 128, 176. | 3.9 | 260 |
| 450 | A novel 13C NMR method to assess intracellular glucose concentration in muscle, in vivo. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E381-E389. | 3.5 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | Effect of insulin on glycerol production in obese adolescents. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E737-E743. | 3.5 | 32 |
| 452 | Effect of epinephrine on muscle glycogenolysis and insulin-stimulated muscle glycogen synthesis in humans. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E130-E138. | 3.5 | 33 |
| 453 | Mechanism by which glucose and insulin inhibit net hepatic glycogenolysis in humans.. Journal of Clinical Investigation, 1998, 101, 1203-1209. | 8.2 | 195 |
| 454 | 13C and 31P NMR Studies on the Effects of Increased Plasma Free Fatty Acids on Intramuscular Glucose Metabolism in the Awake Rat. Journal of Biological Chemistry, 1997, 272, 10464-10473. | 3.4 | 71 |
| 455 | Effects of insulin-like growth factor I on glucose metabolism in rats with liver cirrhosis. American Journal of Physiology - Endocrinology and Metabolism, 1997, 273, E1189-E1193. | 3.5 | 11 |
| 456 | Low-Flow Ischemia Leads to Translocation of Canine Heart GLUT-4 and GLUT-1 Glucose Transporters to the Sarcolemma In Vivo. Circulation, 1997, 95, 415-422. | 1.6 | 186 |
| 457 | Local ventromedial hypothalamus glucose perfusion blocks counterregulation during systemic hypoglycemia in awake rats.. Journal of Clinical Investigation, 1997, 99, 361-365. | 8.2 | 335 |
| 458 | Mechanism of impaired insulin-stimulated muscle glucose metabolism in subjects with insulin-dependent diabetes mellitus.. Journal of Clinical Investigation, 1997, 99, 2219-2224. | 8.2 | 41 |
| 459 | Regulation of exogenous and endogenous glucose metabolism by insulin and acetoacetate in the isolated working rat heart. A three tracer study of glycolysis, glycogen metabolism, and glucose oxidation.. Journal of Clinical Investigation, 1997, 100, 2892-2899. | 8.2 | 49 |
| 460 | Increased Glucose Transportâ€“Phosphorylation and Muscle Glycogen Synthesis after Exercise Training in Insulin-Resistant Subjects. New England Journal of Medicine, 1996, 335, 1357-1362. | 27.0 | 585 |
| 461 | Time course of the defective Î±-cell response to hypoglycemia in diabetic BB rats. Metabolism: Clinical and Experimental, 1996, 45, 1422-1426. | 3.4 | 13 |
| 462 | NMR studies of muscle glycogen synthesis in insulin-resistant offspring of parents with non-insulin-dependent diabetes mellitus immediately after glycogen-depleting exercise.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 5329-5334. | 7.1 | 71 |
| 463 | The roles of insulin and glucagon in the regulation of hepatic glycogen synthesis and turnover in humans.. Journal of Clinical Investigation, 1996, 97, 642-648. | 8.2 | 133 |
| 464 | Noninvasive assessment of hepatic triglyceride content in humans with13C nuclear magnetic resonance spectroscopy. Hepatology, 1996, 24, 114-117. | 7.3 | 35 |
| 465 | Direct assessment of liver glycogen storage by 13C nuclear magnetic resonance spectroscopy and regulation of glucose homeostasis after a mixed meal in normal subjects.. Journal of Clinical Investigation, 1996, 97, 126-132. | 8.2 | 218 |
| 466 | Mechanism of free fatty acid-induced insulin resistance in humans.. Journal of Clinical Investigation, 1996, 97, 2859-2865. | 8.2 | 1,244 |
| 467 | Glucose metabolism distal to a critical coronary stenosis in a canine model of low-flow myocardial ischemia.. Journal of Clinical Investigation, 1996, 98, 62-69. | 8.2 | 48 |
| 468 | Impaired hepatic glycogen synthesis in glucokinase-deficient (MODY-2) subjects.. Journal of Clinical Investigation, 1996, 98, 1755-1761. | 8.2 | 183 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | Glucose plus insulin regulate fat oxidation by controlling the rate of fatty acid entry into the mitochondria.. Journal of Clinical Investigation, 1996, 98, 2244-2250. | 8.2 | 191 |
| 470 | Decreased muscle glucose transport/phosphorylation is an early defect in the pathogenesis of non-insulin-dependent diabetes mellitus.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 983-987. | 7.1 | 305 |
| 471 | Mass and Positional Isotopomer Analysis of Glucose Metabolism in Periportal and Pericentral Hepatocytes. Journal of Biological Chemistry, 1995, 270, 28062-28067. | 3.4 | 17 |
| 472 | Triiodothyronine treatment increases substrate cycling between pyruvate carboxylase and malic enzyme in perfused rat liver. Metabolism: Clinical and Experimental, 1995, 44, 1380-1383. | 3.4 | 28 |
| 473 | Islet Phosphoinositide Hydrolysis and Insulin Secretory Responses from Prediabetic fA/fA ZDF Rats. Biochemical and Biophysical Research Communications, 1995, 209, 974-980. | 2.1 | 6 |
| 474 | Overexpression of Glut4 protein in muscle increases basal and insulin-stimulated whole body glucose disposal in conscious mice.. Journal of Clinical Investigation, 1995, 95, 429-432. | 8.2 | 152 |
| 475 | Impaired net hepatic glycogen synthesis in insulin-dependent diabetic subjects during mixed meal ingestion. A 13C nuclear magnetic resonance spectroscopy study.. Journal of Clinical Investigation, 1995, 95, 783-787. | 8.2 | 157 |
| 476 | Human muscle glycogen resynthesis after exercise: insulin-dependent and -independent phases. Journal of Applied Physiology, 1994, 76, 104-111. | 2.5 | 139 |
| 477 | Ventromedial hypothalamic lesions in rats suppress counterregulatory responses to hypoglycemia.. Journal of Clinical Investigation, 1994, 93, 1677-1682. | 8.2 | 241 |
| 478 | Validation of13C NMR measurements of liver glycogenin vivo. Magnetic Resonance in Medicine, 1994, 31, 583-588. | 3.0 | 68 |
| 479 | Progesterone administration induced impairment of insulin suppression of hepatic glucose production. Fertility and Sterility, 1994, 62, 491-496. | 1.0 | 12 |
| 480 | Turnover of human muscle glycogen with low-intensity exercise. Medicine and Science in Sports and Exercise, 1994, 26, 983???991. | 0.4 | 35 |
| 481 | Localized <sup>13</sup>C NMR Spectroscopy in the Human Brain of Amino Acid Labeling from <scp>d</scp>â€[1â€<sup>13</sup>C]Glucose. Journal of Neurochemistry, 1994, 63, 1377-1385. | 3.9 | 229 |
| 482 | 13C-nuclear magnetic resonance spectroscopy studies of hepatic glucose metabolism in normal subjects and subjects with insulin-dependent diabetes mellitus.. Journal of Clinical Investigation, 1994, 94, 2369-2376. | 8.2 | 99 |
| 483 | Enhancement of the gluconeogenic flux of hepatic glycogen repletion by a phenacyl imidazolium compound in vivo. Acta Diabetologica, 1993, 30, 70-72. | 2.5 | 4 |
| 484 | Non-Invasive Measurements of the Cerebral Steady-State Glucose Concentration and Transport in Humans by 13C Nuclear Magnetic Resonance. Advances in Experimental Medicine and Biology, 1993, 331, 35-40. | 1.6 | 15 |
| 485 | Impaired hormonal responses to hypoglycemia in spontaneously diabetic and recurrently hypoglycemic rats. Reversibility and stimulus specificity of the deficits.. Journal of Clinical Investigation, 1993, 92, 2667-2674. | 8.2 | 71 |
| 486 | Immunocytochemical localization of alpha-protein kinase C in rat pancreatic beta-cells during glucose-induced insulin secretion.. Journal of Cell Biology, 1992, 119, 313-324. | 5.2 | 79 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | Direct measurement of brain glucose concentrations in humans by 13C NMR spectroscopy.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 1109-1112. | 7.1 | 212 |
| 488 | Increased rate of gluconeogenesis in type II diabetes mellitus. A 13C nuclear magnetic resonance study.. Journal of Clinical Investigation, 1992, 90, 1323-1327. | 8.2 | 636 |
| 489 | Hypopituitarism associated with a hypothalamic CMV infection in a patient with AIDS. American Journal of Medicine, 1992, 92, 221-223. | 1.5 | 28 |
| 490 | Pathways of glycogen repletion. Physiological Reviews, 1992, 72, 1019-1035. | 28.8 | 54 |
| 491 | Cerebral Lactate Turnover after Electroshock: In vivo Measurements by <sup>1</sup>H/<sup>13</sup>C Magnetic Resonance Spectroscopy. Journal of Cerebral Blood Flow and Metabolism, 1992, 12, 1022-1029. | 4.3 | 51 |
| 492 | Validation of13c nmr measurement of human skeletal muscle glycogen by direct biochemical assay of needle biopsy samples. Magnetic Resonance in Medicine, 1992, 27, 13-20. | 3.0 | 116 |
| 493 | Detection and assignment of the glucose signal in1h nmr difference spectra of the human brain. Magnetic Resonance in Medicine, 1992, 27, 183-188. | 3.0 | 53 |
| 494 | 31P nuclear magnetic resonance measurements of muscle glucose-6-phosphate. Evidence for reduced insulin-dependent muscle glucose transport or phosphorylation activity in non-insulin-dependent diabetes mellitus.. Journal of Clinical Investigation, 1992, 89, 1069-1075. | 8.2 | 289 |
| 495 | The effect of CP 68,722, a thiozolidinedione derivative, on insulin sensitivity in lean and obese Zucker rats. Metabolism: Clinical and Experimental, 1991, 40, 1025-1030. | 3.4 | 63 |
| 496 | Quantitation of hepatic glycogenolysis and gluconeogenesis in fasting humans with 13C NMR. Science, 1991, 254, 573-576. | 12.6 | 497 |
| 497 | Pathways of hepatic glycogen synthesis in humans. Medicine and Science in Sports and Exercise, 1991, 23, 939???943. | 0.4 | 5 |
| 498 | N.m.r. studies of muscle glycogen synthesis in normal and non-insulin-dependent diabetic subjects. Biochemical Society Transactions, 1991, 19, 992-994. | 3.4 | 10 |
| 499 | Localized proton NMR observation of [3-13C] lactate in stroke after [1-13C] glucose infusion. Magnetic Resonance in Medicine, 1991, 21, 302-307. | 3.0 | 78 |
| 500 | Normalization of blood glucose in diabetic rats with phlorizin treatment reverses insulin-resistant glucose transport in adipose cells without restoring glucose transporter gene expression.. Journal of Clinical Investigation, 1991, 87, 561-570. | 8.2 | 155 |
| 501 | Sources of carbon for hepatic glycogen synthesis in the conscious dog.. Journal of Clinical Investigation, 1991, 88, 578-587. | 8.2 | 109 |
| 502 | Quantitative analysis of the pathways of glycogen repletion in periportal and perivenous hepatocytes in vivo. Journal of Biological Chemistry, 1991, 266, 4094-8. | 3.4 | 14 |
| 503 | Chronicin VivoHyperglycemia Impairs Phosphoinositide Hydrolysis and Insulin Release in Isolated Perifused Rat Islets*. Endocrinology, 1990, 126, 253-260. | 2.8 | 39 |
| 504 | Quantitation of Muscle Glycogen Synthesis in Normal Subjects and Subjects with Non-Insulin-Dependent Diabetes by<sup>13</sup>C Nuclear Magnetic Resonance Spectroscopy. New England Journal of Medicine, 1990, 322, 223-228. | 27.0 | 1,181 |

| # | Article | IF | Citations |
|---|---|---|---|
| 505 | Effect of metformin treatment on insulin action in diabetic rats: In vivo and in vitro correlations. Metabolism: Clinical and Experimental, 1990, 39, 425-435. | 3.4 | 104 |
| 506 | Direct observation of glycogen synthesis in human muscle with 13C NMR.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 4489-4491. | 7.1 | 81 |
| 507 | 13C NMR studies of glycogen turnover in the perfused rat liver. Journal of Biological Chemistry, 1988, 263, 5027-9. | 3.4 | 54 |
| 508 | Correction of hyperglycemia with phlorizin normalizes tissue sensitivity to insulin in diabetic rats.. Journal of Clinical Investigation, 1987, 79, 1510-1515. | 8.2 | 722 |
| 509 | Quantitative analysis of glycogen repletion by nuclear magnetic resonance spectroscopy in the conscious rat.. Journal of Clinical Investigation, 1987, 80, 387-393. | 8.2 | 85 |
| 510 | Effect of chronic hyperglycemia on in vivo insulin secretion in partially pancreatectomized rats.. Journal of Clinical Investigation, 1987, 80, 1037-1044. | 8.2 | 312 |
| 511 | 23Na and 39K NMR studies of ion transport in human erythrocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 1099-1103. | 7.1 | 80 |
| 512 | A 1H NMR technique for observing metabolite signals in the spectrum of perfused liver.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 5246-5249. | 7.1 | 42 |
| 513 | Metabolic Response to Three Years of Continuous, Basal Rate Intravenous Insulin Infusion in Type II Diabetic Patients*. Journal of Clinical Endocrinology and Metabolism, 1985, 61, 753-760. | 3.6 | 33 |
| 514 | Substrate cycling between gluconeogenesis and glycolysis in euthyroid, hypothyroid, and hyperthyroid man.. Journal of Clinical Investigation, 1985, 76, 757-764. | 8.2 | 97 |
| 515 | Mechanism of liver glycogen repletion in vivo by nuclear magnetic resonance spectroscopy.. Journal of Clinical Investigation, 1985, 76, 1229-1236. | 8.2 | 124 |
| 516 | Nuclear magnetic resonance spectroscopy in diagnostic and investigative medicine.. Journal of Clinical Investigation, 1984, 74, 1127-1131. | 8.2 | 21 |
| 517 | Insulin-stimulated tyrosine protein kinase. Characterization and relation to the insulin receptor. Journal of Biological Chemistry, 1984, 259, 5058-65. | 3.4 | 63 |
| 518 | Effect of hyperglycemia independent of changes in insulin or glucagon on lipolysis in the conscious dog. Metabolism: Clinical and Experimental, 1980, 29, 317-320. | 3.4 | 54 |
| 519 | Effect of glucose, independent of changes in insulin and glucagon secretion, on alanine metabolism in the conscious dog.. Journal of Clinical Investigation, 1980, 65, 496-505. | 8.2 | 89 |
| 520 | Glucose Disposal during Insulinopenia in Somatostatin-Treated Dogs. Journal of Clinical Investigation, 1978, 62, 487-491. | 8.2 | 113 |
| 521 | Insulin Resistance in NAFLD: Potential Mechanisms and Therapies. , 0, , 38-54. | | 4 |