

Gerald I Shulman

List of Publications by Year in descending order

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521
papers

110,792
citations

131

164
h-index

229

315
g-index

534
all docs

534
docs citations

534
times ranked

81917
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular mechanisms of insulin resistance. <i>Journal of Clinical Investigation</i> , 2000, 106, 171-176.	3.9	2,199
2	Inflammasome-mediated dysbiosis regulates progression of NAFLD and obesity. <i>Nature</i> , 2012, 482, 179-185.	13.7	2,026
3	Impaired Mitochondrial Activity in the Insulin-Resistant Offspring of Patients with Type 2 Diabetes. <i>New England Journal of Medicine</i> , 2004, 350, 664-671.	13.9	1,969
4	Mitochondrial Dysfunction in the Elderly: Possible Role in Insulin Resistance. <i>Science</i> , 2003, 300, 1140-1142.	6.0	1,848
5	Mitochondrial Dysfunction and Type 2 Diabetes. <i>Science</i> , 2005, 307, 384-387.	6.0	1,802
6	Mechanisms for Insulin Resistance: Common Threads and Missing Links. <i>Cell</i> , 2012, 148, 852-871.	13.5	1,681
7	Insulin Resistance and a Diabetes Mellitus-Like Syndrome in Mice Lacking the Protein Kinase Akt2 (PKBbeta). <i>Science</i> , 2001, 292, 1728-1731.	6.0	1,652
8	Disruption of IRS-2 causes type 2 diabetes in mice. <i>Nature</i> , 1998, 391, 900-904.	13.7	1,607
9	Mechanisms of Insulin Action and Insulin Resistance. <i>Physiological Reviews</i> , 2018, 98, 2133-2223.	13.1	1,502
10	Type 2 diabetes mellitus. <i>Nature Reviews Disease Primers</i> , 2015, 1, 15019.	18.1	1,308
11	Mechanism by Which Fatty Acids Inhibit Insulin Activation of Insulin Receptor Substrate-1 (IRS-1)-associated Phosphatidylinositol 3-Kinase Activity in Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 50230-50236.	1.6	1,254
12	Mechanism of free fatty acid-induced insulin resistance in humans.. <i>Journal of Clinical Investigation</i> , 1996, 97, 2859-2865.	3.9	1,244
13	Quantitation of Muscle Glycogen Synthesis in Normal Subjects and Subjects with Non-Insulin-Dependent Diabetes by ¹³ C Nuclear Magnetic Resonance Spectroscopy. <i>New England Journal of Medicine</i> , 1990, 322, 223-228.	13.9	1,181
14	Increased Energy Expenditure, Decreased Adiposity, and Tissue-Specific Insulin Sensitivity in Protein-Tyrosine Phosphatase 1B-Deficient Mice. <i>Molecular and Cellular Biology</i> , 2000, 20, 5479-5489.	1.1	1,150
15	Intramyocellular lipid concentrations are correlated with insulin sensitivity in humans: a ¹ H NMR spectroscopy study. <i>Diabetologia</i> , 1999, 42, 113-116.	2.9	1,118
16	Obesity-associated improvements in metabolic profile through expansion of adipose tissue. <i>Journal of Clinical Investigation</i> , 2007, 117, 2621-2637.	3.9	1,104
17	Free fatty acid-induced insulin resistance is associated with activation of protein kinase C theta and alterations in the insulin signaling cascade. <i>Diabetes</i> , 1999, 48, 1270-1274.	0.3	1,080
18	Loss of Insulin Signaling in Hepatocytes Leads to Severe Insulin Resistance and Progressive Hepatic Dysfunction. <i>Molecular Cell</i> , 2000, 6, 87-97.	4.5	1,077

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19	Defects in Adaptive Energy Metabolism with CNS-Linked Hyperactivity in PGC-1 β Null Mice. <i>Cell</i> , 2004, 119, 121-135.	13.5	1,074
20	Mechanism of Hepatic Insulin Resistance in Non-alcoholic Fatty Liver Disease. <i>Journal of Biological Chemistry</i> , 2004, 279, 32345-32353.	1.6	1,069
21	Effects of free fatty acids on glucose transport and IRS-1-associated phosphatidylinositol 3-kinase activity. <i>Journal of Clinical Investigation</i> , 1999, 103, 253-259.	3.9	1,063
22	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. <i>Nature</i> , 2001, 409, 729-733.	13.7	1,058
23	Acetate mediates a microbiome-brain β -cell axis to promote metabolic syndrome. <i>Nature</i> , 2016, 534, 213-217.	13.7	990
24	Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. <i>Nature</i> , 2014, 510, 542-546.	13.7	989
25	Lipid-induced insulin resistance: unravelling the mechanism. <i>Lancet</i> , The, 2010, 375, 2267-2277.	6.3	944
26	The pathogenesis of insulin resistance: integrating signaling pathways and substrate flux. <i>Journal of Clinical Investigation</i> , 2016, 126, 12-22.	3.9	924
27	Mechanism by which metformin reduces glucose production in type 2 diabetes. <i>Diabetes</i> , 2000, 49, 2063-2069.	0.3	910
28	The role of hepatic lipids in hepatic insulin resistance and type 2 diabetes. <i>Nature</i> , 2014, 510, 84-91.	13.7	898
29	AMP kinase is required for mitochondrial biogenesis in skeletal muscle in response to chronic energy deprivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15983-15987.	3.3	895
30	Disordered Lipid Metabolism and the Pathogenesis of Insulin Resistance. <i>Physiological Reviews</i> , 2007, 87, 507-520.	13.1	873
31	Uncoupling Protein-2 Negatively Regulates Insulin Secretion and Is a Major Link between Obesity, β Cell Dysfunction, and Type 2 Diabetes. <i>Cell</i> , 2001, 105, 745-755.	13.5	867
32	Ectopic Fat in Insulin Resistance, Dyslipidemia, and Cardiometabolic Disease. <i>New England Journal of Medicine</i> , 2014, 371, 1131-1141.	13.9	803
33	Regulation of mitochondrial biogenesis. <i>Essays in Biochemistry</i> , 2010, 47, 69-84.	2.1	789
34	Reversal of Nonalcoholic Hepatic Steatosis, Hepatic Insulin Resistance, and Hyperglycemia by Moderate Weight Reduction in Patients With Type 2 Diabetes. <i>Diabetes</i> , 2005, 54, 603-608.	0.3	769
35	Mechanisms and disease consequences of nonalcoholic fatty liver disease. <i>Cell</i> , 2021, 184, 2537-2564.	13.5	757
36	Efficacy and Metabolic Effects of Metformin and Troglitazone in Type II Diabetes Mellitus. <i>New England Journal of Medicine</i> , 1998, 338, 867-873.	13.9	737

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37	Molecular Mechanisms of Insulin Resistance in Humans and Their Potential Links With Mitochondrial Dysfunction. <i>Diabetes</i> , 2006, 55, S9-S15.	0.3	730
38	Correction of hyperglycemia with phlorizin normalizes tissue sensitivity to insulin in diabetic rats.. <i>Journal of Clinical Investigation</i> , 1987, 79, 1510-1515.	3.9	722
39	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. <i>Cell</i> , 2014, 156, 304-316.	13.5	719
40	Regulation of hepatic glucose metabolism in health and disease. <i>Nature Reviews Endocrinology</i> , 2017, 13, 572-587.	4.3	718
41	Reduced mitochondrial density and increased IRS-1 serine phosphorylation in muscle of insulin-resistant offspring of type 2 diabetic parents. <i>Journal of Clinical Investigation</i> , 2005, 115, 3587-3593.	3.9	689
42	A guide to analysis of mouse energy metabolism. <i>Nature Methods</i> , 2012, 9, 57-63.	9.0	655
43	Etiology of Insulin Resistance. <i>American Journal of Medicine</i> , 2006, 119, S10-S16.	0.6	646
44	Increased rate of gluconeogenesis in type II diabetes mellitus. A 13C nuclear magnetic resonance study.. <i>Journal of Clinical Investigation</i> , 1992, 90, 1323-1327.	3.9	636
45	UCP2 mediates ghrelin's action on NPY/AgRP neurons by lowering free radicals. <i>Nature</i> , 2008, 454, 846-851.	13.7	633
46	Tissue-specific overexpression of lipoprotein lipase causes tissue-specific insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 7522-7527.	3.3	628
47	The integrative biology of type 2 diabetes. <i>Nature</i> , 2019, 576, 51-60.	13.7	621
48	Standard operating procedures for describing and performing metabolic tests of glucose homeostasis in mice. <i>DMM Disease Models and Mechanisms</i> , 2010, 3, 525-534.	1.2	606
49	The Effects of Rosiglitazone on Insulin Sensitivity, Lipolysis, and Hepatic and Skeletal Muscle Triglyceride Content in Patients With Type 2 Diabetes. <i>Diabetes</i> , 2002, 51, 797-802.	0.3	602
50	The role of skeletal muscle insulin resistance in the pathogenesis of the metabolic syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12587-12594.	3.3	599
51	Prevention of fat-induced insulin resistance by salicylate. <i>Journal of Clinical Investigation</i> , 2001, 108, 437-446.	3.9	597
52	Increased Glucose Transport's Phosphorylation and Muscle Glycogen Synthesis after Exercise Training in Insulin-Resistant Subjects. <i>New England Journal of Medicine</i> , 1996, 335, 1357-1362.	13.9	585
53	Nonalcoholic fatty liver disease, hepatic insulin resistance, and type 2 Diabetes. <i>Hepatology</i> , 2014, 59, 713-723.	3.6	567
54	Impaired Glucose Transport as a Cause of Decreased Insulin-Stimulated Muscle Glycogen Synthesis in Type 2 Diabetes. <i>New England Journal of Medicine</i> , 1999, 341, 240-246.	13.9	562

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55	Surgical implantation of adipose tissue reverses diabetes in lipoatrophic mice. <i>Journal of Clinical Investigation</i> , 2000, 105, 271-278.	3.9	554
56	Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. <i>Journal of Clinical Investigation</i> , 2002, 109, 1345-1350.	3.9	552
57	Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. <i>Cell</i> , 2015, 160, 745-758.	13.5	547
58	Insulin/IGF-1 and TNF- α stimulate phosphorylation of IRS-1 at inhibitory Ser307 via distinct pathways. <i>Journal of Clinical Investigation</i> , 2001, 107, 181-189.	3.9	508
59	FGF19 as a Postprandial, Insulin-Independent Activator of Hepatic Protein and Glycogen Synthesis. <i>Science</i> , 2011, 331, 1621-1624.	6.0	504
60	Quantitation of hepatic glycogenolysis and gluconeogenesis in fasting humans with ^{13}C NMR. <i>Science</i> , 1991, 254, 573-576.	6.0	497
61	Nonalcoholic Fatty Liver Disease as a Nexus of Metabolic and Hepatic Diseases. <i>Cell Metabolism</i> , 2018, 27, 22-41.	7.2	496
62	Antidiabetic actions of a non-agonist PPAR γ ligand blocking Cdk5-mediated phosphorylation. <i>Nature</i> , 2011, 477, 477-481.	13.7	484
63	Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. <i>Journal of Clinical Investigation</i> , 2002, 109, 1321-1326.	3.9	480
64	Cellular mechanism of insulin resistance in nonalcoholic fatty liver disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16381-16385.	3.3	475
65	Ageing-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. <i>Cell Metabolism</i> , 2007, 5, 151-156.	7.2	458
66	Chronic activation of AMP kinase results in NRF-1 activation and mitochondrial biogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E1340-E1346.	1.8	449
67	Prediabetes in obese youth: a syndrome of impaired glucose tolerance, severe insulin resistance, and altered myocellular and abdominal fat partitioning. <i>Lancet</i> , The, 2003, 362, 951-957.	6.3	441
68	Assessment of Skeletal Muscle Triglyceride Content by ^1H Nuclear Magnetic Resonance Spectroscopy in Lean and Obese Adolescents: Relationships to Insulin Sensitivity, Total Body Fat, and Central Adiposity. <i>Diabetes</i> , 2002, 51, 1022-1027.	0.3	440
69	Desnutrin/ATGL Is Regulated by AMPK and Is Required for a Brown Adipose Phenotype. <i>Cell Metabolism</i> , 2011, 13, 739-748.	7.2	440
70	Determination of the rate of the glutamate/glutamine cycle in the human brain by in vivo ^{13}C NMR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 8235-8240.	3.3	432
71	Inhibition of protein kinase C μ prevents hepatic insulin resistance in nonalcoholic fatty liver disease. <i>Journal of Clinical Investigation</i> , 2007, 117, 739-745.	3.9	427
72	Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. <i>Nature Medicine</i> , 2004, 10, 268-274.	15.2	414

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73	Impaired Mitochondrial Substrate Oxidation in Muscle of Insulin-Resistant Offspring of Type 2 Diabetic Patients. <i>Diabetes</i> , 2007, 56, 1376-1381.	0.3	391
74	Diacylglycerol-mediated insulin resistance. <i>Nature Medicine</i> , 2010, 16, 400-402.	15.2	385
75	Apolipoprotein C3 Gene Variants in Nonalcoholic Fatty Liver Disease. <i>New England Journal of Medicine</i> , 2010, 362, 1082-1089.	13.9	384
76	Mechanism of Insulin Resistance in A-ZIP/F-1 Fatless Mice. <i>Journal of Biological Chemistry</i> , 2000, 275, 8456-8460.	1.6	379
77	Reversal of diet-induced hepatic steatosis and hepatic insulin resistance by antisense oligonucleotide inhibitors of acetyl-CoA carboxylases 1 and 2. <i>Journal of Clinical Investigation</i> , 2006, 116, 817-824.	3.9	377
78	Translocation of myocardial GLUT-4 and increased glucose uptake through activation of AMPK by AICAR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 277, H643-H649.	1.5	374
79	Anorectic estrogen mimics leptin's effect on the rewiring of melanocortin cells and Stat3 signaling in obese animals. <i>Nature Medicine</i> , 2007, 13, 89-94.	15.2	373
80	Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. <i>Journal of Clinical Investigation</i> , 2002, 109, 1345-1350.	3.9	373
81	PKC- δ knockout mice are protected from fat-induced insulin resistance. <i>Journal of Clinical Investigation</i> , 2004, 114, 823-827.	3.9	371
82	Synaptic Glutamate Release by Ventromedial Hypothalamic Neurons Is Part of the Neurocircuitry that Prevents Hypoglycemia. <i>Cell Metabolism</i> , 2007, 5, 383-393.	7.2	358
83	Increased prevalence of insulin resistance and nonalcoholic fatty liver disease in Asian-Indian men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18273-18277.	3.3	354
84	Astroglial Contribution to Brain Energy Metabolism in Humans Revealed by ^{13}C Nuclear Magnetic Resonance Spectroscopy: Elucidation of the Dominant Pathway for Neurotransmitter Glutamate Repletion and Measurement of Astrocytic Oxidative Metabolism. <i>Journal of Neuroscience</i> , 2002, 22, 1523-1531.	1.7	351
85	Disruption of neural signal transducer and activator of transcription 3 causes obesity, diabetes, infertility, and thermal dysregulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4661-4666.	3.3	341
86	Local ventromedial hypothalamus glucose perfusion blocks counterregulation during systemic hypoglycemia in awake rats. <i>Journal of Clinical Investigation</i> , 1997, 99, 361-365.	3.9	335
87	A Cluster of Metabolic Defects Caused by Mutation in a Mitochondrial tRNA. <i>Science</i> , 2004, 306, 1190-1194.	6.0	328
88	Role of diacylglycerol activation of PKC δ in lipid-induced muscle insulin resistance in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9597-9602.	3.3	326
89	Functional inactivation of the IGF-I and insulin receptors in skeletal muscle causes type 2 diabetes. <i>Genes and Development</i> , 2001, 15, 1926-1934.	2.7	323
90	Suppression of Diacylglycerol Acyltransferase-2 (DGAT2), but Not DGAT1, with Antisense Oligonucleotides Reverses Diet-induced Hepatic Steatosis and Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2007, 282, 22678-22688.	1.6	319

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91	Effect of chronic hyperglycemia on in vivo insulin secretion in partially pancreatectomized rats.. Journal of Clinical Investigation, 1987, 80, 1037-1044.	3.9	312
92	The role of AMP-activated protein kinase in mitochondrial biogenesis. Journal of Physiology, 2006, 574, 33-39.	1.3	310
93	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.	3.3	305
94	Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. Journal of Clinical Investigation, 2002, 109, 1321-1326.	3.9	304
95	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.	3.9	302
96	STAT3 inhibition of gluconeogenesis is downregulated by SirT1. Nature Cell Biology, 2009, 11, 492-500.	4.6	301
97	Pathogenesis of skeletal muscle insulin resistance in type 2 diabetes mellitus. American Journal of Cardiology, 2002, 90, 11-18.	0.7	297
98	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.	3.9	289
99	Dual role of proapoptotic BAD in insulin secretion and beta cell survival. Nature Medicine, 2008, 14, 144-153.	15.2	285
100	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. Nature Medicine, 2012, 18, 934-942.	15.2	285
101	Redistribution of substrates to adipose tissue promotes obesity in mice with selective insulin resistance in muscle. Journal of Clinical Investigation, 2000, 105, 1791-1797.	3.9	283
102	Skeletal muscle lipid metabolism with obesity. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E741-E747.	1.8	280
103	Decreased Insulin-Stimulated ATP Synthesis and Phosphate Transport in Muscle of Insulin-Resistant Offspring of Type 2 Diabetic Parents. PLoS Medicine, 2005, 2, e233.	3.9	279
104	The Contribution of Blood Lactate to Brain Energy Metabolism in Humans Measured by Dynamic ¹³ C Nuclear Magnetic Resonance Spectroscopy. Journal of Neuroscience, 2010, 30, 13983-13991.	1.7	279
105	Cellular and Molecular Mechanisms of Metformin Action. Endocrine Reviews, 2021, 42, 77-96.	8.9	279
106	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.	3.3	277
107	Targeted Expression of Catalase to Mitochondria Prevents Age-Associated Reductions in Mitochondrial Function and Insulin Resistance. Cell Metabolism, 2010, 12, 668-674.	7.2	274
108	Alterations in Postprandial Hepatic Glycogen Metabolism in Type 2 Diabetes. Diabetes, 2004, 53, 3048-3056.	0.3	267

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109	Regulation of myocardial glucose uptake and transport during ischemia and energetic stress. <i>American Journal of Cardiology</i> , 1999, 83, 25-30.	0.7	264
110	Effect of 5-Aminoimidazole-4-Carboxamide-1- β -D-Ribofuranoside Infusion on In Vivo Glucose and Lipid Metabolism in Lean and Obese Zucker Rats. <i>Diabetes</i> , 2001, 50, 1076-1082.	0.3	261
111	Sirt1 Regulates Adipose Tissue Inflammation. <i>Diabetes</i> , 2011, 60, 3235-3245.	0.3	261
112	Metabolic Effects of Troglitazone Monotherapy in Type 2 Diabetes Mellitus. <i>Annals of Internal Medicine</i> , 1998, 128, 176.	2.0	260
113	Paradoxical effects of increased expression of PGC-1 α on muscle mitochondrial function and insulin-stimulated muscle glucose metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19926-19931.	3.3	257
114	Fish Oil Regulates Adiponectin Secretion by a Peroxisome Proliferator-Activated Receptor- α -Dependent Mechanism in Mice. <i>Diabetes</i> , 2006, 55, 924-928.	0.3	254
115	An ERK/Cdk5 axis controls the diabetogenic actions of PPAR γ . <i>Nature</i> , 2015, 517, 391-395.	13.7	251
116	Roles of Diacylglycerols and Ceramides in Hepatic Insulin Resistance. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 649-665.	4.0	251
117	Development of insulin resistance in mice lacking PGC-1 α in adipose tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9635-9640.	3.3	248
118	Contrasting Effects of IRS-1 Versus IRS-2 Gene Disruption on Carbohydrate and Lipid Metabolism in Vivo. <i>Journal of Biological Chemistry</i> , 2000, 275, 38990-38994.	1.6	247
119	Diacylglycerol Activation of Protein Kinase C μ and Hepatic Insulin Resistance. <i>Cell Metabolism</i> , 2012, 15, 574-584.	7.2	247
120	The Deacetylase Sirt6 Activates the Acetyltransferase GCN5 and Suppresses Hepatic Gluconeogenesis. <i>Molecular Cell</i> , 2012, 48, 900-913.	4.5	246
121	Effects of free fatty acid elevation on postabsorptive endogenous glucose production and gluconeogenesis in humans. <i>Diabetes</i> , 2000, 49, 701-707.	0.3	243
122	Ventromedial hypothalamic lesions in rats suppress counterregulatory responses to hypoglycemia. <i>Journal of Clinical Investigation</i> , 1994, 93, 1677-1682.	3.9	241
123	Mitochondrial dysfunction due to long-chain Acyl-CoA dehydrogenase deficiency causes hepatic steatosis and hepatic insulin resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17075-17080.	3.3	241
124	Akt2 Is Required for Hepatic Lipid Accumulation in Models of Insulin Resistance. <i>Cell Metabolism</i> , 2009, 10, 405-418.	7.2	241
125	Prevention of hepatic steatosis and hepatic insulin resistance in mitochondrial acyl-CoA:glycerol-sn-3-phosphate acyltransferase 1 knockout mice. <i>Cell Metabolism</i> , 2005, 2, 55-65.	7.2	235
126	AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency. <i>Nature Medicine</i> , 2009, 15, 159-168.	15.2	234

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127	Mechanisms of Insulin Resistance in Humans and Possible Links With Inflammation. <i>Hypertension</i> , 2005, 45, 828-833.	1.3	231
128	Niclosamide ethanolamine-induced mild mitochondrial uncoupling improves diabetic symptoms in mice. <i>Nature Medicine</i> , 2014, 20, 1263-1269.	15.2	230
129	Localized ¹³ C NMR Spectroscopy in the Human Brain of Amino Acid Labeling from ¹³ C]Glucose. <i>Journal of Neurochemistry</i> , 1994, 63, 1377-1385.	2.1	229
130	Controlled-release mitochondrial protonophore reverses diabetes and steatohepatitis in rats. <i>Science</i> , 2015, 347, 1253-1256.	6.0	229
131	Phosphoinositide profiling in complex lipid mixtures using electrospray ionization mass spectrometry. <i>Nature Biotechnology</i> , 2003, 21, 813-817.	9.4	226
132	PKC- δ knockout mice are protected from fat-induced insulin resistance. <i>Journal of Clinical Investigation</i> , 2004, 114, 823-827.	3.9	226
133	Altered Brain Mitochondrial Metabolism in Healthy Aging as Assessed by <i>in vivo</i> Magnetic Resonance Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 211-221.	2.4	223
134	The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. <i>Nucleic Acids Research</i> , 2014, 42, 13799-13811.	6.5	218
135	Direct assessment of liver glycogen storage by ¹³ C nuclear magnetic resonance spectroscopy and regulation of glucose homeostasis after a mixed meal in normal subjects. <i>Journal of Clinical Investigation</i> , 1996, 97, 126-132.	3.9	218
136	Regulation of adipose tissue inflammation by interleukin 6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2751-2760.	3.3	216
137	Effects of a Novel Glycogen Synthase Kinase-3 Inhibitor on Insulin-Stimulated Glucose Metabolism in Zucker Diabetic Fatty (fa/fa) Rats. <i>Diabetes</i> , 2002, 51, 2903-2910.	0.3	214
138	Direct measurement of brain glucose concentrations in humans by ¹³ C NMR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 1109-1112.	3.3	212
139	n-3 Fatty Acids Preserve Insulin Sensitivity <i>In Vivo</i> in a Peroxisome Proliferator-Activated Receptor- α -Dependent Manner. <i>Diabetes</i> , 2007, 56, 1034-1041.	0.3	212
140	Metformin inhibits gluconeogenesis via a redox-dependent mechanism <i>in vivo</i> . <i>Nature Medicine</i> , 2018, 24, 1384-1394.	15.2	200
141	Cyclin D1-Cdk4 controls glucose metabolism independently of cell cycle progression. <i>Nature</i> , 2014, 510, 547-551.	13.7	198
142	Mice lacking MAP kinase phosphatase-1 have enhanced MAP kinase activity and resistance to diet-induced obesity. <i>Cell Metabolism</i> , 2006, 4, 61-73.	7.2	197
143	SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic β -Cell Function. <i>Diabetes</i> , 2011, 60, 890-898.	0.3	197
144	A common variant in the patatin-like phospholipase 3 gene (PNPLA3) is associated with fatty liver disease in obese children and adolescents. <i>Hepatology</i> , 2010, 52, 1281-1290.	3.6	195

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145	Inactivation of fatty acid transport protein 1 prevents fat-induced insulin resistance in skeletal muscle. <i>Journal of Clinical Investigation</i> , 2004, 113, 756-763.	3.9	195
146	Mechanism by which glucose and insulin inhibit net hepatic glycogenolysis in humans.. <i>Journal of Clinical Investigation</i> , 1998, 101, 1203-1209.	3.9	195
147	Deletion of the Mammalian INDY Homolog Mimics Aspects of Dietary Restriction and Protects against Adiposity and Insulin Resistance in Mice. <i>Cell Metabolism</i> , 2011, 14, 184-195.	7.2	193
148	Effect of AMPK activation on muscle glucose metabolism in conscious rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 276, E938-E944.	1.8	191
149	Glucose plus insulin regulate fat oxidation by controlling the rate of fatty acid entry into the mitochondria.. <i>Journal of Clinical Investigation</i> , 1996, 98, 2244-2250.	3.9	191
150	Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. <i>Cell Metabolism</i> , 2013, 18, 740-748.	7.2	190
151	Myosteatosis in the Context of Skeletal Muscle Function Deficit: An Interdisciplinary Workshop at the National Institute on Aging. <i>Frontiers in Physiology</i> , 2020, 11, 963.	1.3	190
152	Genetic Modulation of PPAR β Phosphorylation Regulates Insulin Sensitivity. <i>Developmental Cell</i> , 2003, 5, 657-663.	3.1	189
153	Comparative MR study of hepatic fat quantification using single-voxel proton spectroscopy, two-point Dixon and three-point IDEAL. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 521-527.	1.9	188
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