Gerald I Shulman

List of Publications by Year
in descending order

521 papers	110,792 citations	106 164 h-index	198 315 g-index
534 all docs	534 docs citations	534 times ranked	75593 citing authors

#	Article	IF	Citations
1	Cellular mechanisms of insulin resistance. Journal of Clinical Investigation, 2000, 106, 171-176.	3.9	2,199
2	Inflammasome-mediated dysbiosis regulates progression of NAFLD and obesity. Nature, 2012, 482, 179-185.	13.7	2,026
3	Impaired Mitochondrial Activity in the Insulin-Resistant Offspring of Patients with Type 2 Diabetes. New England Journal of Medicine, 2004, 350, 664-671.	13.9	1,969
4	Mitochondrial Dysfunction in the Elderly: Possible Role in Insulin Resistance. Science, 2003, 300, 1140-1142.	6.0	1,848
5	Mitochondrial Dysfunction and Type 2 Diabetes. Science, 2005, 307, 384-387.	6.0	1,802
6	Mechanisms for Insulin Resistance: Common Threads and Missing Links. Cell, 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). Science, 2001, 292, 1728-1731.	6.0	1,652
8	Disruption of IRS-2 causes type 2 diabetes in mice. Nature, 1998, 391, 900-904.	13.7	1,607
9	Mechanisms of Insulin Action and Insulin Resistance. Physiological Reviews, 2018, 98, 2133-2223.	13.1	1,502
10	Type 2 diabetes mellitus. Nature Reviews Disease Primers, 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. Journal of Biological Chemistry, 2002, 277, 50230-50236.	1.6	1,254
12	Mechanism of free fatty acid-induced insulin resistance in humans.. Journal of Clinical Investigation, 1996, 97, 2859-2865.	3.9	1,244
13	Quantitation of Muscle Glycogen Synthesis in Normal Subjects and Subjects with Non-Insulin-Dependent Diabetes by¹³C Nuclear Magnetic Resonance Spectroscopy. New England Journal of Medicine, 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. Molecular and Cellular Biology, 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. Diabetologia, 1999, 42, 113-116.	2.9	1,118
16	Obesity-associated improvements in metabolic profile through expansion of adipose tissue. Journal of Clinical Investigation, 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. Diabetes, 1999, 48, 1270-1274.	0.3	1,080
18	Loss of Insulin Signaling in Hepatocytes Leads to Severe Insulin Resistance and Progressive Hepatic Dysfunction. Molecular Cell, 2000, 6, 87-97.	4.5	1,077

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19	Defects in Adaptive Energy Metabolism with CNS-Linked Hyperactivity in PGC-1Î± Null Mice. Cell, 2004, 119, 121-135.	13.5	1,074
20	Mechanism of Hepatic Insulin Resistance in Non-alcoholic Fatty Liver Disease. Journal of Biological Chemistry, 2004, 279, 32345-32353.	1.6	1,069
21	Effects of free fatty acids on glucose transport and IRS-1â€"associated phosphatidylinositol 3-kinase activity. Journal of Clinical Investigation, 1999, 103, 253-259.	3.9	1,063
22	Adipose-selective targeting of the GLUT4 gene impairs insulin action in muscle and liver. Nature, 2001, 409, 729-733.	13.7	1,058
23	Acetate mediates a microbiomeâ€"brainâ€"Î²-cell axis to promote metabolic syndrome. Nature, 2016, 534, 213-217.	13.7	990
24	Metformin suppresses gluconeogenesis by inhibiting mitochondrial glycerophosphate dehydrogenase. Nature, 2014, 510, 542-546.	13.7	989
25	Lipid-induced insulin resistance: unravelling the mechanism. Lancet, The, 2010, 375, 2267-2277.	6.3	944
26	The pathogenesis of insulin resistance: integrating signaling pathways and substrate flux. Journal of Clinical Investigation, 2016, 126, 12-22.	3.9	924
27	Mechanism by which metformin reduces glucose production in type 2 diabetes. Diabetes, 2000, 49, 2063-2069.	0.3	910
28	The role of hepatic lipids in hepatic insulin resistance and type 2 diabetes. Nature, 2014, 510, 84-91.	13.7	898
29	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.	3.3	895
30	Disordered Lipid Metabolism and the Pathogenesis of Insulin Resistance. Physiological Reviews, 2007, 87, 507-520.	13.1	873
31	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.	13.5	867
32	Ectopic Fat in Insulin Resistance, Dyslipidemia, and Cardiometabolic Disease. New England Journal of Medicine, 2014, 371, 1131-1141.	13.9	803
33	Regulation of mitochondrial biogenesis. Essays in Biochemistry, 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. Diabetes, 2005, 54, 603-608.	0.3	769
35	Mechanisms and disease consequences of nonalcoholic fatty liver disease. Cell, 2021, 184, 2537-2564.	13.5	757
36	Efficacy and Metabolic Effects of Metformin and Troglitazone in Type II Diabetes Mellitus. New England Journal of Medicine, 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. Diabetes, 2006, 55, S9-S15.	0.3	730
38	Correction of hyperglycemia with phlorizin normalizes tissue sensitivity to insulin in diabetic rats.. Journal of Clinical Investigation, 1987, 79, 1510-1515.	3.9	722
39	Ablation of PRDM16 and Beige Adipose Causes Metabolic Dysfunction and a Subcutaneous to Visceral Fat Switch. Cell, 2014, 156, 304-316.	13.5	719
40	Regulation of hepatic glucose metabolism in health and disease. Nature Reviews Endocrinology, 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. Journal of Clinical Investigation, 2005, 115, 3587-3593.	3.9	689
42	A guide to analysis of mouse energy metabolism. Nature Methods, 2012, 9, 57-63.	9.0	655
43	Etiology of Insulin Resistance. American Journal of Medicine, 2006, 119, S10-S16.	0.6	646
44	Increased rate of gluconeogenesis in type II diabetes mellitus. A 13C nuclear magnetic resonance study.. Journal of Clinical Investigation, 1992, 90, 1323-1327.	3.9	636
45	UCP2 mediates ghrelinâ€™s action on NPY/AgRP neurons by lowering free radicals. Nature, 2008, 454, 846-851.	13.7	633
46	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.	3.3	628
47	The integrative biology of type 2 diabetes. Nature, 2019, 576, 51-60.	13.7	621
48	Standard operating procedures for describing and performing metabolic tests of glucose homeostasis in mice. DMM Disease Models and Mechanisms, 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. Diabetes, 2002, 51, 797-802.	0.3	602
50	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.	3.3	599
51	Prevention of fat-induced insulin resistance by salicylate. Journal of Clinical Investigation, 2001, 108, 437-446.	3.9	597
52	Increased Glucose Transportâ€"Phosphorylation and Muscle Glycogen Synthesis after Exercise Training in Insulin-Resistant Subjects. New England Journal of Medicine, 1996, 335, 1357-1362.	13.9	585
53	Nonalcoholic fatty liver disease, hepatic insulin resistance, and type 2 Diabetes. Hepatology, 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. New England Journal of Medicine, 1999, 341, 240-246.	13.9	562

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55	Surgical implantation of adipose tissue reverses diabetes in lipoatrophic mice. Journal of Clinical Investigation, 2000, 105, 271-278.	3.9	554
56	Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. Journal of Clinical Investigation, 2002, 109, 1345-1350.	3.9	552
57	Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. Cell, 2015, 160, 745-758.	13.5	547
58	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.	3.9	508
59	FGF19 as a Postprandial, Insulin-Independent Activator of Hepatic Protein and Glycogen Synthesis. Science, 2011, 331, 1621-1624.	6.0	504
60	Quantitation of hepatic glycogenolysis and gluconeogenesis in fasting humans with 13C NMR. Science, 1991, 254, 573-576.	6.0	497
61	Nonalcoholic Fatty Liver Disease as a Nexus of Metabolic and Hepatic Diseases. Cell Metabolism, 2018, 27, 22-41.	7.2	496
62	Antidiabetic actions of a non-agonist PPARÎ³ ligand blocking Cdk5-mediated phosphorylation. Nature, 2011, 477, 477-481.	13.7	484
63	Mechanism by which high-dose aspirin improves glucose metabolism in type 2 diabetes. Journal of Clinical Investigation, 2002, 109, 1321-1326.	3.9	480
64	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.	3.3	475
65	Aging-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. Cell Metabolism, 2007, 5, 151-156.	7.2	458
66	Chronic activation of AMP kinase results in NRF-1 activation and mitochondrial biogenesis. American Journal of Physiology - Endocrinology and Metabolism, 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. Lancet, 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. Diabetes, 2002, 51, 1022-1027.	0.3	440
69	Desnutrin/ATGL Is Regulated by AMPK and Is Required for a Brown Adipose Phenotype. Cell Metabolism, 2011, 13, 739-748.	7.2	440
70	Determination of the rate of the glutamate/glutamine cycle in the human brain by in vivo 13C NMR. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8235-8240.	3.3	432
71	Inhibition of protein kinase CÎµ prevents hepatic insulin resistance in nonalcoholic fatty liver disease. Journal of Clinical Investigation, 2007, 117, 739-745.	3.9	427
72	Hepatic expression of malonyl-CoA decarboxylase reverses muscle, liver and whole-animal insulin resistance. Nature Medicine, 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. Diabetes, 2007, 56, 1376-1381.	0.3	391
74	Diacylglycerol-mediated insulin resistance. Nature Medicine, 2010, 16, 400-402.	15.2	385
75	Apolipoprotein C3 Gene Variants in Nonalcoholic Fatty Liver Disease. New England Journal of Medicine, 2010, 362, 1082-1089.	13.9	384
76	Mechanism of Insulin Resistance in A-ZIP/F-1 Fatless Mice. Journal of Biological Chemistry, 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. Journal of Clinical Investigation, 2006, 116, 817-824.	3.9	377
78	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.	1.5	374
79	Anorectic estrogen mimics leptin's effect on the rewiring of melanocortin cells and Stat3 signaling in obese animals. Nature Medicine, 2007, 13, 89-94.	15.2	373
80	Leptin reverses insulin resistance and hepatic steatosis in patients with severe lipodystrophy. Journal of Clinical Investigation, 2002, 109, 1345-1350.	3.9	373
81	PKC-Î¸ knockout mice are protected from fat-induced insulin resistance. Journal of Clinical Investigation, 2004, 114, 823-827.	3.9	371
82	Synaptic Glutamate Release by Ventromedial Hypothalamic Neurons Is Part of the Neurocircuitry that Prevents Hypoglycemia. Cell Metabolism, 2007, 5, 383-393.	7.2	358
83	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.	3.3	354
84	Astroglial Contribution to Brain Energy Metabolism in Humans Revealed by¹³C 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.	1.7	351
85	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.	3.3	341
86	Local ventromedial hypothalamus glucose perfusion blocks counterregulation during systemic hypoglycemia in awake rats.. Journal of Clinical Investigation, 1997, 99, 361-365.	3.9	335
87	A Cluster of Metabolic Defects Caused by Mutation in a Mitochondrial tRNA. Science, 2004, 306, 1190-1194.	6.0	328
88	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.	3.3	326
89	Functional inactivation of the IGF-I and insulin receptors in skeletal muscle causes type 2 diabetes. Genes and Development, 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. Journal of Biological Chemistry, 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 Dynamic¹³C 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. American Journal of Cardiology, 1999, 83, 25-30.	0.7	264
110	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.	0.3	261
111	SirT1 Regulates Adipose Tissue Inflammation. Diabetes, 2011, 60, 3235-3245.	0.3	261
112	Metabolic Effects of Troglitazone Monotherapy in Type 2 Diabetes Mellitus. Annals of Internal Medicine, 1998, 128, 176.	2.0	260
113	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.	3.3	257
114	Fish Oil Regulates Adiponectin Secretion by a Peroxisome Proliferator-Activated Receptor-Â-Dependent Mechanism in Mice. Diabetes, 2006, 55, 924-928.	0.3	254
115	An ERK/Cdk5 axis controls the diabetogenic actions of PPARÎ³. Nature, 2015, 517, 391-395.	13.7	251
116	Roles of Diacylglycerols and Ceramides in Hepatic Insulin Resistance. Trends in Pharmacological Sciences, 2017, 38, 649-665.	4.0	251
117	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.	3.3	248
118	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.	1.6	247
119	Diacylglycerol Activation of Protein Kinase CÎµ and Hepatic Insulin Resistance. Cell Metabolism, 2012, 15, 574-584.	7.2	247
120	The Deacetylase Sirt6 Activates the Acetyltransferase GCN5 and Suppresses Hepatic Gluconeogenesis. Molecular Cell, 2012, 48, 900-913.	4.5	246
121	Effects of free fatty acid elevation on postabsorptive endogenous glucose production and gluconeogenesis in humans. Diabetes, 2000, 49, 701-707.	0.3	243
122	Ventromedial hypothalamic lesions in rats suppress counterregulatory responses to hypoglycemia.. Journal of Clinical Investigation, 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. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17075-17080.	3.3	241
124	Akt2 Is Required for Hepatic Lipid Accumulation in Models of Insulin Resistance. Cell Metabolism, 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. Cell Metabolism, 2005, 2, 55-65.	7.2	235
126	AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency. Nature Medicine, 2009, 15, 159-168.	15.2	234

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127	Mechanisms of Insulin Resistance in Humans and Possible Links With Inflammation. Hypertension, 2005, 45, 828-833.	1.3	231
128	Niclosamide ethanolamineâ€"induced mild mitochondrial uncoupling improves diabetic symptoms in mice. Nature Medicine, 2014, 20, 1263-1269.	15.2	230
129	Localized ¹³C NMR Spectroscopy in the Human Brain of Amino Acid Labeling from <scp>d</scp>â€[1â€‹¹³C]Glucose. Journal of Neurochemistry, 1994, 63, 1377-1385.	2.1	229
130	Controlled-release mitochondrial protonophore reverses diabetes and steatohepatitis in rats. Science, 2015, 347, 1253-1256.	6.0	229
131	Phosphoinositide profiling in complex lipid mixtures using electrospray ionization mass spectrometry. Nature Biotechnology, 2003, 21, 813-817.	9.4	226
132	PKC-Î¸ knockout mice are protected from fat-induced insulin resistance. Journal of Clinical Investigation, 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. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 211-221.	2.4	223
134	The H19/let-7 double-negative feedback loop contributes to glucose metabolism in muscle cells. Nucleic Acids Research, 2014, 42, 13799-13811.	6.5	218
135	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.	3.9	218
136	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.	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. Diabetes, 2002, 51, 2903-2910.	0.3	214
138	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.	3.3	212
139	n-3 Fatty Acids Preserve Insulin Sensitivity In Vivo in a Peroxisome Proliferator-Activated Receptor-Â-Dependent Manner. Diabetes, 2007, 56, 1034-1041.	0.3	212
140	Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. Nature Medicine, 2018, 24, 1384-1394.	15.2	200
141	Cyclin D1â€"Cdk4 controls glucose metabolism independently of cell cycle progression. Nature, 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. Cell Metabolism, 2006, 4, 61-73.	7.2	197
143	SGLT2 Deletion Improves Glucose Homeostasis and Preserves Pancreatic Î²-Cell Function. Diabetes, 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. Hepatology, 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. Journal of Clinical Investigation, 2004, 113, 756-763.	3.9	195
146	Mechanism by which glucose and insulin inhibit net hepatic glycogenolysis in humans.. Journal of Clinical Investigation, 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. Cell Metabolism, 2011, 14, 184-195.	7.2	193
148	Effect of AMPK activation on muscle glucose metabolism in conscious rats. American Journal of Physiology - Endocrinology and Metabolism, 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.. Journal of Clinical Investigation, 1996, 98, 2244-2250.	3.9	191
150	Reversal of Hypertriglyceridemia, Fatty Liver Disease, and Insulin Resistance by a Liver-Targeted Mitochondrial Uncoupler. Cell Metabolism, 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. Frontiers in Physiology, 2020, 11, 963.	1.3	190
152	Genetic Modulation of PPARÎ³ Phosphorylation Regulates Insulin Sensitivity. Developmental Cell, 2003, 5, 657-663.	3.1	189
153	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.	1.9	188
154	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.	1.6	188
155	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
156	Cellular Mechanisms by Which FGF21 Improves Insulin Sensitivity in Male Mice. Endocrinology, 2013, 154, 3099-3109.	1.4	184
157	Impaired hepatic glycogen synthesis in glucokinase-deficient (MODY-2) subjects.. Journal of Clinical Investigation, 1996, 98, 1755-1761.	3.9	183
158	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.	7.2	179
159	Leptin reverses diabetes by suppression of the hypothalamic-pituitary-adrenal axis. Nature Medicine, 2014, 20, 759-763.	15.2	178
160	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.	3.3	176
161	Ectopic Fat in Insulin Resistance, Dyslipidemia, and Cardiometabolic Disease. New England Journal of Medicine, 2014, 371, 2236-2238.	13.9	175
162	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.	1.8	174

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163	Insulin receptor Thr1160 phosphorylation mediates lipid-induced hepatic insulin resistance. Journal of Clinical Investigation, 2016, 126, 4361-4371.	3.9	173
164	Low Adiponectin Levels in Adolescent Obesity: A Marker of Increased Intramyocellular Lipid Accumulation. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 2014-2018.	1.8	172
165	Acetylâ€CoA Carboxylase Inhibition Reverses NAFLD and Hepatic Insulin Resistance but Promotes Hypertriglyceridemia in Rodents. Hepatology, 2018, 68, 2197-2211.	3.6	172
166	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.	3.3	169
167	Inhibition of Notch signaling ameliorates insulin resistance in a FoxO1-dependent manner. Nature Medicine, 2011, 17, 961-967.	15.2	165
168	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.	0.3	162
169	Hypomorphic mutation of PGC-1Î² causes mitochondrial dysfunction and liver insulin resistance. Cell Metabolism, 2006, 4, 453-464.	7.2	162
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