Morris J Birnbaum

List of Publications by Year
in descending order

212 papers	40,706 citations	2795 94 h-index	2375 198 g-index
215 all docs	215 docs citations	215 times ranked	44270 citing authors

#	Article	IF	Citations
1	Regulation of Neuronal Survival by the Serine-Threonine Protein Kinase Akt. Science, 1997, 275, 661-665.	6.0	2,322
2	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
3	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. Nature, 2004, 428, 569-574.	13.7	1,464
4	AMP-Activated Protein Kinase Induces a p53-Dependent Metabolic Checkpoint. Molecular Cell, 2005, 18, 283-293.	4.5	1,431
5	Expression of a Constitutively Active Akt Ser/Thr Kinase in 3T3-L1 Adipocytes Stimulates Glucose Uptake and Glucose Transporter 4 Translocation. Journal of Biological Chemistry, 1996, 271, 31372-31378.	1.6	1,115
6	Inhibition of Ceramide Synthesis Ameliorates Glucocorticoid-, Saturated-Fat-, and Obesity-Induced Insulin Resistance. Cell Metabolism, 2007, 5, 167-179.	7.2	1,048
7	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
8	Essential Regulation of Cell Bioenergetics by Constitutive InsP3 Receptor Ca2+ Transfer to Mitochondria. Cell, 2010, 142, 270-283.	13.5	888
9	Convergent evidence for impaired AKT1-GSK3Î² signaling in schizophrenia. Nature Genetics, 2004, 36, 131-137.	9.4	884
10	A Role for AMP-Activated Protein Kinase in Contraction- and Hypoxia-Regulated Glucose Transport in Skeletal Muscle. Molecular Cell, 2001, 7, 1085-1094.	4.5	845
11	Akt1/PKBÎ± Is Required for Normal Growth but Dispensable for Maintenance of Glucose Homeostasis in Mice. Journal of Biological Chemistry, 2001, 276, 38349-38352.	1.6	845
12	Receptor-mediated activation of ceramidase activity initiates the pleiotropic actions of adiponectin. Nature Medicine, 2011, 17, 55-63.	15.2	751
13	Biguanides suppress hepatic glucagon signalling by decreasing production of cyclic AMP. Nature, 2013, 494, 256-260.	13.7	707
14	Memory CD8+ T Cells Use Cell-Intrinsic Lipolysis to Support the Metabolic Programming Necessary for Development. Immunity, 2014, 41, 75-88.	6.6	650
15	AMP-activated protein kinase mediates ischemic glucose uptake and prevents postischemic cardiac dysfunction, apoptosis, and injury. Journal of Clinical Investigation, 2004, 114, 495-503.	3.9	640
16	Identification of a novel gene encoding an insulin-responsive glucose transporter protein. Cell, 1989, 57, 305-315.	13.5	613
17	Role of Akt/protein kinase B in metabolism. Trends in Endocrinology and Metabolism, 2002, 13, 444-451.	3.1	590
18	Cloning and characterization of a cDNA encoding the rat brain glucose-transporter protein.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 5784-5788.	3.3	558

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19	Hepatic Acetyl CoA Links Adipose Tissue Inflammation to Hepatic Insulin Resistance and Type 2 Diabetes. Cell, 2015, 160, 745-758.	13.5	547
20	MICU1 Is an Essential Gatekeeper for MCU-Mediated Mitochondrial Ca2+ Uptake that Regulates Cell Survival. Cell, 2012, 151, 630-644.	13.5	543
21	Role for Akt3/Protein Kinase BÎ³ in Attainment of Normal Brain Size. Molecular and Cellular Biology, 2005, 25, 1869-1878.	1.1	504
22	The role of FoxO in the regulation of metabolism. Oncogene, 2008, 27, 2320-2336.	2.6	473
23	Regulation of pancreatic Î²-cell growth and survival by the serine/threonine protein kinase Akt1/PKBÎ±. Nature Medicine, 2001, 7, 1133-1137.	15.2	471
24	The AMP-activated protein kinase Î±2 catalytic subunit controls whole-body insulin sensitivity. Journal of Clinical Investigation, 2003, 111, 91-98.	3.9	444
25	Akt/PKB regulates hepatic metabolism by directly inhibiting PGC-1Î± transcription coactivator. Nature, 2007, 447, 1012-1016.	13.7	420
26	The Small Intestine Converts Dietary Fructose into Glucose and Organic Acids. Cell Metabolism, 2018, 27, 351-361.e3.	7.2	416
27	Regulation of Insulin-Stimulated Glucose Transporter GLUT4 Translocation and Akt Kinase Activity by Ceramide. Molecular and Cellular Biology, 1998, 18, 5457-5464.	1.1	411
28	Early diabetes and abnormal postnatal pancreatic islet development in mice lacking Glut-2. Nature Genetics, 1997, 17, 327-330.	9.4	385
29	Cyclic AMP Promotes Neuronal Survival by Phosphorylation of Glycogen Synthase Kinase 3Î². Molecular and Cellular Biology, 2000, 20, 9356-9363.	1.1	352
30	GLUT-1 deficiency syndrome caused by haploinsufficiency of the blood-brain barrier hexose carrier. Nature Genetics, 1998, 18, 188-191.	9.4	349
31	Cell-autonomous regulation of cell and organ growth in Drosophila by Akt/PKB. Nature Cell Biology, 1999, 1, 500-506.	4.6	349
32	Akt1/protein kinase BÂ is critical for ischemic and VEGF-mediated angiogenesis. Journal of Clinical Investigation, 2005, 115, 2119-2127.	3.9	341
33	Identification of a Proline-rich Akt Substrate as a 14-3-3 Binding Partner. Journal of Biological Chemistry, 2003, 278, 10189-10194.	1.6	322
34	Exercise Induces Isoform-Specific Increase in 5â€²AMP-Activated Protein Kinase Activity in Human Skeletal Muscle. Biochemical and Biophysical Research Communications, 2000, 273, 1150-1155.	1.0	318
35	Inhibition of Akt Kinase by Cell-permeable Ceramide and Its Implications for Ceramide-induced Apoptosis. Journal of Biological Chemistry, 1998, 273, 16568-16575.	1.6	315
36	Insulin regulates liver metabolism in vivo in the absence of hepatic Akt and Foxo1. Nature Medicine, 2012, 18, 388-395.	15.2	310

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37	A Role for Protein Kinase BÎ²/Akt2 in Insulin-Stimulated GLUT4 Translocation in Adipocytes. Molecular and Cellular Biology, 1999, 19, 7771-7781.	1.1	294
38	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. Nature Medicine, 2012, 18, 934-942.	15.2	285
39	The immune response attenuates growth and nutrient storage in Drosophila by reducing insulin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20853-20858.	3.3	284
40	Construction and Characterization of a Conditionally Active Version of the Serine/Threonine Kinase Akt. Journal of Biological Chemistry, 1998, 273, 11937-11943.	1.6	281
41	The Effects of Wortmannin on Rat Skeletal Muscle. Journal of Biological Chemistry, 1995, 270, 2107-2111.	1.6	279
42	Unraveling the Regulation of Hepatic Metabolism by Insulin. Trends in Endocrinology and Metabolism, 2017, 28, 497-505.	3.1	278
43	Protein Kinase C Î¸ Inhibits Insulin Signaling by Phosphorylating IRS1 at Ser1101. Journal of Biological Chemistry, 2004, 279, 45304-45307.	1.6	274
44	The Regulation of AMP-Activated Protein Kinase by H2O2. Biochemical and Biophysical Research Communications, 2001, 287, 92-97.	1.0	269
45	Isoform-specific Regulation of Insulin-dependent Glucose Uptake by Akt/Protein Kinase B. Journal of Biological Chemistry, 2003, 278, 49530-49536.	1.6	268
46	Role of AMP-activated Protein Kinase in Cyclic AMP-dependent Lipolysis In 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2003, 278, 43074-43080.	1.6	254
47	Loss of Akt1 Leads to Severe Atherosclerosis and Occlusive Coronary Artery Disease. Cell Metabolism, 2007, 6, 446-457.	7.2	253
48	Activation of SOCS-3 by Resistin. Molecular and Cellular Biology, 2005, 25, 1569-1575.	1.1	247
49	AKT1 and AKT2 maintain hematopoietic stem cell function by regulating reactive oxygen species. Blood, 2010, 115, 4030-4038.	0.6	246
50	Akt2 Is Required for Hepatic Lipid Accumulation in Models of Insulin Resistance. Cell Metabolism, 2009, 10, 405-418.	7.2	241
51	The aetiology and molecular landscape of insulin resistance. Nature Reviews Molecular Cell Biology, 2021, 22, 751-771.	16.1	221
52	Physiological role of AMP-activated protein kinase (AMPK): insights from knockout mouse models. Biochemical Society Transactions, 2003, 31, 216-219.	1.6	215
53	Transduction of Growth or Mitogenic Signals into Translational Activation of TOP mRNAs Is Fully Reliant on the Phosphatidylinositol 3-Kinase-Mediated Pathway but Requires neither S6K1 nor rpS6 Phosphorylation. Molecular and Cellular Biology, 2002, 22, 8101-8113.	1.1	210
54	Direct Hepatocyte Insulin Signaling Is Required for Lipogenesis but Is Dispensable for the Suppression of Glucose Production. Cell Metabolism, 2016, 23, 1154-1166.	7.2	207

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55	Insulin Increases the Association of Akt-2 with Glut4-containing Vesicles. Journal of Biological Chemistry, 1998, 273, 7201-7204.	1.6	204
56	Akt and CHIP coregulate tau degradation through coordinated interactions. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3622-3627.	3.3	203
57	The translational inhibitor 4E-BP is an effector of PI(3)K/Akt signalling and cell growth in Drosophila. Nature Cell Biology, 2001, 3, 596-601.	4.6	202
58	Akt1 Regulates a JNK Scaffold during Excitotoxic Apoptosis. Neuron, 2002, 35, 697-709.	3.8	191
59	Pim and Akt oncogenes are independent regulators of hematopoietic cell growth and survival. Blood, 2005, 105, 4477-4483.	0.6	188
60	Leptin activates hypothalamic acetyl-CoA carboxylase to inhibit food intake. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17358-17363.	3.3	188
61	The Role of Glycogen Synthase Kinase 3Î² in Insulin-stimulated Glucose Metabolism. Journal of Biological Chemistry, 1999, 274, 17934-17940.	1.6	187
62	Defects in secretion, aggregation, and thrombus formation in platelets from mice lacking Akt2. Journal of Clinical Investigation, 2004, 113, 441-450.	3.9	186
63	The role of FOXO in the regulation of metabolism. Current Diabetes Reports, 2009, 9, 208-214.	1.7	184
64	Akt/Protein Kinase B Isoforms Are Differentially Regulated by Epidermal Growth Factor Stimulation. Journal of Biological Chemistry, 2000, 275, 30934-30942.	1.6	181
65	Protein Kinase A-Dependent and -Independent Signaling Pathways Contribute to Cyclic AMP-Stimulated Proliferation. Molecular and Cellular Biology, 1999, 19, 5882-5891.	1.1	174
66	Contribution of Insulin and Akt1 Signaling to Endothelial Nitric Oxide Synthase in the Regulation of Endothelial Function and Blood Pressure. Circulation Research, 2009, 104, 1085-1094.	2.0	173
67	Selective Inhibition of Ras, Phosphoinositide 3 Kinase, and Akt Isoforms Increases the Radiosensitivity of Human Carcinoma Cell Lines. Cancer Research, 2005, 65, 7902-7910.	0.4	169
68	Insulin Regulates Adipocyte Lipolysis via an Akt-Independent Signaling Pathway. Molecular and Cellular Biology, 2010, 30, 5009-5020.	1.1	169
69	The Role of AMPK and mTOR in Nutrient Sensing in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2007, 282, 10341-10351.	1.6	161
70	Construction of human activityâ€based phosphorylation networks. Molecular Systems Biology, 2013, 9, 655.	3.2	153
71	Regulation of Fat Cell Mass by Insulin in <i>Drosophila melanogaster</i>. Molecular and Cellular Biology, 2009, 29, 6341-6352.	1.1	151
72	Adiponectin suppresses gluconeogenic gene expression in mouse hepatocytes independent of LKB1-AMPK signaling. Journal of Clinical Investigation, 2011, 121, 2518-2528.	3.9	147

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73	The PP2A-Associated Protein Â4 Is an Essential Inhibitor of Apoptosis. Science, 2004, 306, 695-698.	6.0	142
74	The Human Growth Hormone Gene Locus: Structure, Evolution, and Allelic Variations. DNA and Cell Biology, 1987, 6, 59-70.	5.1	138
75	An energetic tale of AMPK-independent effects of metformin. Journal of Clinical Investigation, 2010, 120, 2267-2270.	3.9	135
76	Insulin signaling to hepatic lipid metabolism in health and disease. Critical Reviews in Biochemistry and Molecular Biology, 2011, 46, 200-215.	2.3	132
77	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535.	5.8	131
78	PPARÎ³ contributes to PKM2 and HK2 expression in fatty liver. Nature Communications, 2012, 3, 672.	5.8	127
79	Hepatic insulin signalling is dispensable for suppression of glucose output by insulin in vivo. Nature Communications, 2015, 6, 7078.	5.8	127
80	Insulin, but Not Contraction, Activates Akt/PKB in Isolated Rat Skeletal Muscle. Journal of Biological Chemistry, 1998, 273, 14679-14682.	1.6	126
81	Isolation of a Drosophila genomic sequence homologous to the kinase domain of the human insulin receptor and detection of the phosphorylated Drosophila receptor with an anti-peptide antibody.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 4710-4714.	3.3	123
82	Opposing Roles for Akt1 and Akt2 in Rac/Pak Signaling and Cell Migration. Journal of Biological Chemistry, 2006, 281, 36443-36453.	1.6	122
83	Membrane depolarization is the trigger for PI3K/Akt activation and leads to the generation of ROS. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H105-H114.	1.5	122
84	A Conserved Role for Phosphatidylinositol 3-Kinase but Not Akt Signaling in Mitochondrial Adaptations that Accompany Physiological Cardiac Hypertrophy. Cell Metabolism, 2007, 6, 294-306.	7.2	121
85	Oxalic acid and diacylglycerol 36:3 are cross-species markers of sleep debt. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2569-2574.	3.3	121
86	Distinct signals in the GLUT4 glucose transporter for internalization and for targeting to an insulin-responsive compartment.. Journal of Cell Biology, 1995, 130, 1071-1079.	2.3	119
87	Akt1 and Akt2 are required for Î±Î² thymocyte survival and differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12105-12110.	3.3	116
88	Postprandial Hepatic Lipid Metabolism Requires Signaling through Akt2 Independent of the Transcription Factors FoxA2, FoxO1, and SREBP1c. Cell Metabolism, 2011, 14, 516-527.	7.2	116
89	Neuregulin Signaling through a PI3K/Akt/Bad Pathway in Schwann Cell Survival. Molecular and Cellular Neurosciences, 2001, 17, 761-767.	1.0	115
90	Regulation of Angiogenesis by Glycogen Synthase Kinase-3Î². Journal of Biological Chemistry, 2002, 277, 41888-41896.	1.6	111

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91	Molecular and Genetic Studies Imply Akt-mediated Signaling Promotes Protein Kinase CÎ²II Alternative Splicing via Phosphorylation of Serine/Arginine-rich Splicing Factor SRp40. Journal of Biological Chemistry, 2005, 280, 14302-14309.	1.6	107
92	TLR4-Mediated AKT Activation Is MyD88/TRIF Dependent and Critical for Induction of Oxidative Phosphorylation and Mitochondrial Transcription Factor A in Murine Macrophages. Journal of Immunology, 2012, 188, 2847-2857.	0.4	107
93	Defects in secretion, aggregation, and thrombus formation in platelets from mice lacking Akt2. Journal of Clinical Investigation, 2004, 113, 441-450.	3.9	101
94	Molecular aspects of fructose metabolism and metabolic disease. Cell Metabolism, 2021, 33, 2329-2354.	7.2	100
95	Activation of Liver AMPK with PF-06409577 Corrects NAFLD and Lowers Cholesterol in Rodent and Primate Preclinical Models. EBioMedicine, 2018, 31, 122-132.	2.7	99
96	Metabolic drivers of non-alcoholic fatty liver disease. Molecular Metabolism, 2021, 50, 101143.	3.0	99
97	Isoform-specific requirement for Akt1 in the developmental regulation of cellular metabolism during lactation. Cell Metabolism, 2006, 4, 475-490.	7.2	98
98	Insulin receptor substrate 1 mediates insulin and insulin-like growth factor I-stimulated maturation of Xenopus oocytes.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5172-5175.	3.3	93
99	Selective suppression of AMP-activated protein kinase in skeletal muscle: update on â€˜lazy miceâ€™. Biochemical Society Transactions, 2003, 31, 236-241.	1.6	93
100	Identification of Wortmannin-sensitive Targets in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 1999, 274, 24677-24684.	1.6	92
101	Signaling Pathways Mediating Insulin-Stimulated Glucose Transport. Annals of the New York Academy of Sciences, 1999, 892, 169-186.	1.8	91
102	ADP-ribosylation factor 6 regulates insulin secretion through plasma membrane phosphatidylinositol 4,5-bisphosphate. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13320-13325.	3.3	90
103	Spontaneous Hepatocellular Carcinoma after the Combined Deletion of Akt Isoforms. Cancer Cell, 2016, 29, 523-535.	7.7	89
104	The Critical Role of AKT2 in Hepatic Steatosis Induced by PTEN Loss. American Journal of Pathology, 2010, 176, 2302-2308.	1.9	87
105	Insulin-responsive Aminopeptidase Trafficking in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 2000, 275, 2560-2567.	1.6	86
106	Akt1 deficiency in schizophrenia and impairment of hippocampal plasticity and function. Hippocampus, 2012, 22, 230-240.	0.9	84
107	Expansion of Hepatic Tumor Progenitor Cells in Pten-Null Mice Requires Liver Injury and Is Reversed by Loss of AKT2. Gastroenterology, 2010, 139, 2170-2182.	0.6	83
108	Identification of a nonneuronal isoform of synaptotagmin.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 5895-5899.	3.3	81

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109	Activating AMP-Activated Protein Kinase without AMP. Molecular Cell, 2005, 19, 289-290.	4.5	77
110	Akt1 and Akt2 promote peripheral B-cell maturation and survival. Blood, 2010, 115, 4043-4050.	0.6	74
111	The Role of PDE3B Phosphorylation in the Inhibition of Lipolysis by Insulin. Molecular and Cellular Biology, 2015, 35, 2752-2760.	1.1	73
112	AKT-dependent HspB1 (Hsp27) Activity in Epidermal Differentiation. Journal of Biological Chemistry, 2007, 282, 17297-17305.	1.6	72
113	Natural and inducible TH17 cells are regulated differently by Akt and mTOR pathways. Nature Immunology, 2013, 14, 611-618.	7.0	72
114	Turning down insulin signaling. Journal of Clinical Investigation, 2001, 108, 655-659.	3.9	72
115	mTORC1 stimulates phosphatidylcholine synthesis to promote triglyceride secretion. Journal of Clinical Investigation, 2017, 127, 4207-4215.	3.9	71
116	Mechanisms of glucocorticoid hormone action. The Journal of Steroid Biochemistry, 1984, 20, 77-88.	1.3	70
117	GDF-15 Neutralization Alleviates Platinum-Based Chemotherapy-Induced Emesis, Anorexia, and Weight Loss in Mice and Nonhuman Primates. Cell Metabolism, 2020, 32, 938-950.e6.	7.2	70
118	Akt2, phosphatidylinositol 3-kinase, and PTEN are in lipid rafts of intestinal cells: Role in absorption and differentiation. Gastroenterology, 2004, 126, 122-135.	0.6	69
119	Isoform-specific regulation of adipocyte differentiation by Akt/protein kinase BÎ±. Biochemical and Biophysical Research Communications, 2008, 371, 138-143.	1.0	69
120	SREBP1c-CRY1 signalling represses hepatic glucose production by promoting FOXO1 degradation during refeeding. Nature Communications, 2016, 7, 12180.	5.8	67
121	Selective Activation of AMPK<i>Î²</i>1-Containing Isoforms Improves Kidney Function in a Rat Model of Diabetic Nephropathy. Journal of Pharmacology and Experimental Therapeutics, 2017, 361, 303-311.	1.3	66
122	Innate Immune Signaling in Drosophila Blocks Insulin Signaling by Uncoupling PI(3,4,5)P3 Production and Akt Activation. Cell Reports, 2018, 22, 2550-2556.	2.9	66
123	A role for the serine/threonine kinase, Akt, in insulin-stimulated glucose uptake. Biochemical Society Transactions, 1997, 25, 981-988.	1.6	65
124	PGCâ€•1Î± gene expression is downâ€•regulated by Aktâ€•mediated phosphorylation and nuclear exclusion of FoxO1 in insulinâ€•stimulated skeletal muscle. FASEB Journal, 2005, 19, 2072-2074.	0.2	65
125	Activation of Akt Is Essential for the Propagation of Mitochondrial Respiratory Stress Signaling and Activation of the Transcriptional Coactivator Heterogeneous Ribonucleoprotein A2. Molecular Biology of the Cell, 2010, 21, 3578-3589.	0.9	63
126	A Noncanonical, GSK3-Independent Pathway Controls Postprandial Hepatic Glycogen Deposition. Cell Metabolism, 2013, 18, 99-105.	7.2	63

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127	Akt Deficiency Attenuates Muscle Size and Function but Not the Response to ActRIIB Inhibition. PLoS ONE, 2010, 5, e12707.	1.1	62
128	Loss of PIP5KIÎ³, unlike other PIP5KI isoforms, impairs the integrity of the membrane cytoskeleton in murine megakaryocytes. Journal of Clinical Investigation, 2008, 118, 812-9.	3.9	61
129	The tyrosine kinases Syk and Lyn exert opposing effects on the activation of protein kinase Akt/PKB in B lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6890-6895.	3.3	60
130	Constitutively active Akt1 expression in mouse pancreas requires S6 kinase 1 for insulinoma formation. Journal of Clinical Investigation, 2008, 118, 3629-3638.	3.9	60
131	A novel Akt3 mutation associated with enhanced kinase activity and seizure susceptibility in mice. Human Molecular Genetics, 2011, 20, 988-999.	1.4	58
132	Differentiation-dependent Suppression of Platelet-derived Growth Factor Signaling in Cultured Adipocytes. Journal of Biological Chemistry, 1999, 274, 23858-23867.	1.6	57
133	AMP kinase is not required for the GLUT4 response to exercise and denervation in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E739-E743.	1.8	57
134	Akt is required for Stat5 activation and mammary differentiation. Breast Cancer Research, 2010, 12, R72.	2.2	57
135	Control of Gluconeogenesis by Metformin: Does Redox Trump Energy Charge?. Cell Metabolism, 2014, 20, 197-199.	7.2	57
136	Loss of Akt1 in Mice Increases Energy Expenditure and Protects against Diet-Induced Obesity. Molecular and Cellular Biology, 2012, 32, 96-106.	1.1	56
137	Lack of AKT in adipocytes causes severe lipodystrophy. Molecular Metabolism, 2016, 5, 472-479.	3.0	56
138	Expression of a Glucose Transporter Gene Cloned from Brain in Cellular Models of Insulin Resistance: Dexamethasone Decreases Transporter mRNA in Primary Cultured Adipocytes. Molecular Endocrinology, 1989, 3, 1132-1141.	3.7	55
139	Aktâ€mediated foxo1 inhibition is required for liver regeneration. Hepatology, 2016, 63, 1660-1674.	3.6	55
140	Polyoma Middle T Antigen Activates the Ser/Thr Kinase Akt in a PI3-Kinase-Dependent Manner. Biochemical and Biophysical Research Communications, 1998, 246, 76-81.	1.0	52
141	Glucagon: acute actions on hepatic metabolism. Diabetologia, 2016, 59, 1376-1381.	2.9	51
142	Different Signaling Roles of SHPTP2 in Insulin-induced GLUT1 Expression and GLUT4 Translocation. Journal of Biological Chemistry, 1995, 270, 12965-12968.	1.6	50
143	Targeting hepatic glutaminase activity to ameliorate hyperglycemia. Nature Medicine, 2018, 24, 518-524.	15.2	50
144	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensorâ€"stimulated muscle glucose utilization. Journal of Clinical Investigation, 2003, 111, 1555-1562.	3.9	50

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145	1 Cellular insulin action and insulin resistance. Bailliere's Clinical Endocrinology and Metabolism, 1993, 7, 785-873.	1.0	47
146	Normal Akt/PKB with reduced PI3K activation in insulin-resistant mice. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E1249-E1254.	1.8	47
147	Ciliary Neurotrophic Factor Stimulates Muscle Glucose Uptake by a PI3-Kinaseâ€"Dependent Pathway That Is Impaired With Obesity. Diabetes, 2009, 58, 829-839.	0.3	47
148	Rapamycin Induces Mitogen-activated Protein (MAP) Kinase Phosphatase-1 (MKP-1) Expression through Activation of Protein Kinase B and Mitogen-activated Protein Kinase Kinase Pathways. Journal of Biological Chemistry, 2013, 288, 33966-33977.	1.6	47
149	Dialogue between muscle and fat. Nature, 2001, 409, 672-673.	13.7	43
150	Transformation stimulates glucose transporter gene expression in the absence of protein kinase C.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8252-8256.	3.3	42
151	Platelet-Derived Growth Factor (PDGF) Stimulates Glucose Transport in 3T3-L1 Adipocytes Overexpressing PDGF Receptor by a Pathway Independent of Insulin Receptor Substrates. Endocrinology, 2003, 144, 3811-3820.	1.4	42
152	Lysophosphatidic acid induces cell migration through the selective activation of Akt1. Experimental and Molecular Medicine, 2008, 40, 445.	3.2	42
153	AMPK supports growth in Drosophila by regulating muscle activity and nutrient uptake in the gut. Developmental Biology, 2010, 344, 293-303.	0.9	42
154	Pharmacologic inhibition of ketohexokinase prevents fructose-induced metabolic dysfunction. Molecular Metabolism, 2021, 48, 101196.	3.0	42
155	ADP-Ribosylation Factor 6 Delineates Separate Pathways Used by Endothelin 1 and Insulin for Stimulating Glucose Uptake in 3T3-L1 Adipocytes. Molecular and Cellular Biology, 2001, 21, 5276-5285.	1.1	40
156	Role of Insulin-Like Growth Factor-Binding Protein 5 (IGFBP5) in Organismal and Pancreatic Î²-Cell Growth. Molecular Endocrinology, 2010, 24, 178-192.	3.7	39
157	Phosphorylation of GATA-6 is required for vascular smooth muscle cell differentiation after mTORC1 inhibition. Science Signaling, 2015, 8, ra44.	1.6	39
158	Akt pathway is hypoactivated by synergistic actions of diabetes mellitus and hypercholesterolemia resulting in advanced coronary artery disease. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H699-H706.	1.5	37
159	PI3K regulates pleckstrin-2 in T-cell cytoskeletal reorganization. Blood, 2007, 109, 1147-1155.	0.6	36
160	Mio/dChREBP coordinately increases fat mass by regulating lipid synthesis and feeding behavior in Drosophila. Biochemical and Biophysical Research Communications, 2012, 426, 43-48.	1.0	36
161	Proteolytic Cleavage of AMPKÎ± and Intracellular MMP9 Expression Are Both Required for TLR4-Mediated mTORC1 Activation and HIF-1Î± Expression in Leukocytes. Journal of Immunology, 2015, 195, 2452-2460.	0.4	35
162	Turning down insulin signaling. Journal of Clinical Investigation, 2001, 108, 655-659.	3.9	35

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163	Hepatic Gi signaling regulates whole-body glucose homeostasis. Journal of Clinical Investigation, 2018, 128, 746-759.	3.9	34
164	Quantitative Analysis of Anti-apoptotic Function of Akt in Akt1 and Akt2 Double Knock-out Mouse Embryonic Fibroblast Cells under Normal and Stressed Conditions. Journal of Biological Chemistry, 2006, 281, 31380-31388.	1.6	33
165	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatoportal glucose sensorâ€"stimulated muscle glucose utilization. Journal of Clinical Investigation, 2003, 111, 1555-1562.	3.9	31
166	Drugs, diabetes and cancer. Nature, 2011, 470, 338-339.	13.7	30
167	Lipolysis. Journal of Cell Biology, 2003, 161, 1011-1012.	2.3	29
168	De-Meaning of Metabolism. Science, 2012, 336, 1651-1652.	6.0	29
169	Linker region of Akt1/protein kinase BÎ± mediates platelet-derived growth factor-induced translocation and cell migration. Cellular Signalling, 2008, 20, 2030-2037.	1.7	28
170	Differential regulation of Akt/protein kinase B isoforms during cell cycle progression. FEBS Letters, 2009, 583, 685-690.	1.3	28
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