

Morris J Birnbaum

List of Publications by Citations

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207
papers

34,848
citations

90
h-index

186
g-index

215
ext. papers

37,839
ext. citations

13.8
avg, IF

6.93
L-index

#	Paper	IF	Citations
207	Regulation of neuronal survival by the serine-threonine protein kinase Akt. <i>Science</i> , 1997 , 275, 661-5	33.3	2181
206	Insulin resistance and a diabetes mellitus-like syndrome in mice lacking the protein kinase Akt2 (PKB beta). <i>Science</i> , 2001 , 292, 1728-31	33.3	1513
205	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , 2004 , 428, 569-74	50.4	1295
204	AMP-activated protein kinase induces a p53-dependent metabolic checkpoint. <i>Molecular Cell</i> , 2005 , 18, 283-93	17.6	1259
203	Expression of a constitutively active Akt Ser/Thr kinase in 3T3-L1 adipocytes stimulates glucose uptake and glucose transporter 4 translocation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 31372-8	5.4	982
202	Inhibition of ceramide synthesis ameliorates glucocorticoid-, saturated-fat-, and obesity-induced insulin resistance. <i>Cell Metabolism</i> , 2007 , 5, 167-79	24.6	899
201	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, 15983-7	11.5	810
200	Convergent evidence for impaired AKT1-GSK3beta signaling in schizophrenia. <i>Nature Genetics</i> , 2004 , 36, 131-7	36.3	786
199	A role for AMP-activated protein kinase in contraction- and hypoxia-regulated glucose transport in skeletal muscle. <i>Molecular Cell</i> , 2001 , 7, 1085-94	17.6	783
198	Akt1/PKBalpha is required for normal growth but dispensable for maintenance of glucose homeostasis in mice. <i>Journal of Biological Chemistry</i> , 2001 , 276, 38349-52	5.4	754
197	Essential regulation of cell bioenergetics by constitutive InsP3 receptor Ca2+ transfer to mitochondria. <i>Cell</i> , 2010 , 142, 270-83	56.2	740
196	Receptor-mediated activation of ceramidase activity initiates the pleiotropic actions of adiponectin. <i>Nature Medicine</i> , 2011 , 17, 55-63	50.5	635
195	Identification of a novel gene encoding an insulin-responsive glucose transporter protein. <i>Cell</i> , 1989 , 57, 305-15	56.2	575
194	AMP-activated protein kinase mediates ischemic glucose uptake and prevents postischemic cardiac dysfunction, apoptosis, and injury. <i>Journal of Clinical Investigation</i> , 2004 , 114, 495-503	15.9	567
193	Biguanides suppress hepatic glucagon signalling by decreasing production of cyclic AMP. <i>Nature</i> , 2013 , 494, 256-60	50.4	565
192	Role of Akt/protein kinase B in metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2002 , 13, 444-51	8.8	543
191	Cloning and characterization of a cDNA encoding the rat brain glucose-transporter protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 5784-8	11.5	520

190	Memory CD8(+) T cells use cell-intrinsic lipolysis to support the metabolic programming necessary for development. <i>Immunity</i> , 2014 , 41, 75-88	32.3	463
189	Role for Akt3/protein kinase Bgamma in attainment of normal brain size. <i>Molecular and Cellular Biology</i> , 2005 , 25, 1869-78	4.8	463
188	MICU1 is an essential gatekeeper for MCU-mediated mitochondrial Ca(2+) uptake that regulates cell survival. <i>Cell</i> , 2012 , 151, 630-44	56.2	441
187	Regulation of pancreatic beta-cell growth and survival by the serine/threonine protein kinase Akt1/PKBalpha. <i>Nature Medicine</i> , 2001 , 7, 1133-7	50.5	422
186	Hepatic acetyl CoA links adipose tissue inflammation to hepatic insulin resistance and type 2 diabetes. <i>Cell</i> , 2015 , 160, 745-758	56.2	419
185	The AMP-activated protein kinase alpha2 catalytic subunit controls whole-body insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2003 , 111, 91-8	15.9	396
184	The role of FoxO in the regulation of metabolism. <i>Oncogene</i> , 2008 , 27, 2320-36	9.2	388
183	Akt/PKB regulates hepatic metabolism by directly inhibiting PGC-1alpha transcription coactivator. <i>Nature</i> , 2007 , 447, 1012-6	50.4	370
182	Regulation of insulin-stimulated glucose transporter GLUT4 translocation and Akt kinase activity by ceramide. <i>Molecular and Cellular Biology</i> , 1998 , 18, 5457-64	4.8	364
181	Early diabetes and abnormal postnatal pancreatic islet development in mice lacking Glut-2. <i>Nature Genetics</i> , 1997 , 17, 327-30	36.3	342
180	Cyclic AMP promotes neuronal survival by phosphorylation of glycogen synthase kinase 3beta. <i>Molecular and Cellular Biology</i> , 2000 , 20, 9356-63	4.8	329
179	Cell-autonomous regulation of cell and organ growth in Drosophila by Akt/PKB. <i>Nature Cell Biology</i> , 1999 , 1, 500-6	23.4	317
178	GLUT-1 deficiency syndrome caused by haploinsufficiency of the blood-brain barrier hexose carrier. <i>Nature Genetics</i> , 1998 , 18, 188-91	36.3	309
177	Akt1/protein kinase Balpha is critical for ischemic and VEGF-mediated angiogenesis. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2119-27	15.9	303
176	Exercise induces isoform-specific increase in 5AMP-activated protein kinase activity in human skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 273, 1150-5	3.4	292
175	A role for protein kinase Bbeta/Akt2 in insulin-stimulated GLUT4 translocation in adipocytes. <i>Molecular and Cellular Biology</i> , 1999 , 19, 7771-81	4.8	282
174	Inhibition of Akt kinase by cell-permeable ceramide and its implications for ceramide-induced apoptosis. <i>Journal of Biological Chemistry</i> , 1998 , 273, 16568-75	5.4	280
173	Identification of a proline-rich Akt substrate as a 14-3-3 binding partner. <i>Journal of Biological Chemistry</i> , 2003 , 278, 10189-94	5.4	270

172	The Small Intestine Converts Dietary Fructose into Glucose and Organic Acids. <i>Cell Metabolism</i> , 2018 , 27, 351-361.e3	24.6	264
171	Insulin regulates liver metabolism in vivo in the absence of hepatic Akt and Foxo1. <i>Nature Medicine</i> , 2012 , 18, 388-95	50.5	260
170	Construction and characterization of a conditionally active version of the serine/threonine kinase Akt. <i>Journal of Biological Chemistry</i> , 1998 , 273, 11937-43	5.4	254
169	Isoform-specific regulation of insulin-dependent glucose uptake by Akt/protein kinase B. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49530-6	5.4	253
168	The regulation of AMP-activated protein kinase by H ₂ O ₂ . <i>Biochemical and Biophysical Research Communications</i> , 2001 , 287, 92-7	3.4	249
167	Protein kinase C Theta inhibits insulin signaling by phosphorylating IRS1 at Ser(1101). <i>Journal of Biological Chemistry</i> , 2004 , 279, 45304-7	5.4	242
166	Hepatic Hdac3 promotes gluconeogenesis by repressing lipid synthesis and sequestration. <i>Nature Medicine</i> , 2012 , 18, 934-42	50.5	240
165	The effects of wortmannin on rat skeletal muscle. Dissociation of signaling pathways for insulin- and contraction-activated hexose transport. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2107-11	5.4	237
164	Role of AMP-activated protein kinase in cyclic AMP-dependent lipolysis in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 2003 , 278, 43074-80	5.4	222
163	AKT1 and AKT2 maintain hematopoietic stem cell function by regulating reactive oxygen species. <i>Blood</i> , 2010 , 115, 4030-8	2.2	219
162	Activation of SOCS-3 by resistin. <i>Molecular and Cellular Biology</i> , 2005 , 25, 1569-75	4.8	218
161	Akt2 is required for hepatic lipid accumulation in models of insulin resistance. <i>Cell Metabolism</i> , 2009 , 10, 405-18	24.6	216
160	Loss of Akt1 leads to severe atherosclerosis and occlusive coronary artery disease. <i>Cell Metabolism</i> , 2007 , 6, 446-57	24.6	209
159	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. <i>Molecular and Cellular Biology</i> , 2002 , 22, 8101-13	4.8	198
158	Physiological role of AMP-activated protein kinase (AMPK): insights from knockout mouse models. <i>Biochemical Society Transactions</i> , 2003 , 31, 216-9	5.1	196
157	The immune response attenuates growth and nutrient storage in <i>Drosophila</i> by reducing insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20853-8	11.5	186
156	Defects in secretion, aggregation, and thrombus formation in platelets from mice lacking Akt2. <i>Journal of Clinical Investigation</i> , 2004 , 113, 441-450	15.9	177
155	Akt1 regulates a JNK scaffold during excitotoxic apoptosis. <i>Neuron</i> , 2002 , 35, 697-709	13.9	177

154	Pim and Akt oncogenes are independent regulators of hematopoietic cell growth and survival. <i>Blood</i> , 2005 , 105, 4477-83	2.2	176
153	The translational inhibitor 4E-BP is an effector of PI(3)K/Akt signalling and cell growth in <i>Drosophila</i> . <i>Nature Cell Biology</i> , 2001 , 3, 596-601	23.4	176
152	Leptin activates hypothalamic acetyl-CoA carboxylase to inhibit food intake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17358-63	11.5	172
151	Insulin increases the association of Akt-2 with Glut4-containing vesicles. <i>Journal of Biological Chemistry</i> , 1998 , 273, 7201-4	5.4	171
150	Akt and CHIP coregulate tau degradation through coordinated interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3622-7	11.5	170
149	The role of glycogen synthase kinase 3beta in insulin-stimulated glucose metabolism. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17934-40	5.4	167
148	Protein kinase A-dependent and -independent signaling pathways contribute to cyclic AMP-stimulated proliferation. <i>Molecular and Cellular Biology</i> , 1999 , 19, 5882-91	4.8	161
147	Unraveling the Regulation of Hepatic Metabolism by Insulin. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 497-505	8.8	159
146	Selective inhibition of Ras, phosphoinositide 3 kinase, and Akt isoforms increases the radiosensitivity of human carcinoma cell lines. <i>Cancer Research</i> , 2005 , 65, 7902-10	10.1	155
145	Akt/protein kinase B isoforms are differentially regulated by epidermal growth factor stimulation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 30934-42	5.4	154
144	Direct Hepatocyte Insulin Signaling Is Required for Lipogenesis but Is Dispensable for the Suppression of Glucose Production. <i>Cell Metabolism</i> , 2016 , 23, 1154-1166	24.6	151
143	Contribution of insulin and Akt1 signaling to endothelial nitric oxide synthase in the regulation of endothelial function and blood pressure. <i>Circulation Research</i> , 2009 , 104, 1085-94	15.7	145
142	The role of FOXO in the regulation of metabolism. <i>Current Diabetes Reports</i> , 2009 , 9, 208-14	5.6	145
141	Insulin regulates adipocyte lipolysis via an Akt-independent signaling pathway. <i>Molecular and Cellular Biology</i> , 2010 , 30, 5009-20	4.8	141
140	The role of AMPK and mTOR in nutrient sensing in pancreatic beta-cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 10341-51	5.4	139
139	Construction of human activity-based phosphorylation networks. <i>Molecular Systems Biology</i> , 2013 , 9, 655	12.2	134
138	The PP2A-associated protein alpha4 is an essential inhibitor of apoptosis. <i>Science</i> , 2004 , 306, 695-8	33.3	133
137	Adiponectin suppresses gluconeogenic gene expression in mouse hepatocytes independent of LKB1-AMPK signaling. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2518-28	15.9	125

136	The human growth hormone gene locus: structure, evolution, and allelic variations. <i>DNA and Cell Biology</i> , 1987 , 6, 59-70		119
135	Distinct signals in the GLUT4 glucose transporter for internalization and for targeting to an insulin-responsive compartment. <i>Journal of Cell Biology</i> , 1995 , 130, 1071-9	7.3	117
134	Insulin, but not contraction, activates Akt/PKB in isolated rat skeletal muscle. <i>Journal of Biological Chemistry</i> , 1998 , 273, 14679-82	5.4	115
133	An energetic tale of AMPK-independent effects of metformin. <i>Journal of Clinical Investigation</i> , 2010 , 120, 2267-70	15.9	114
132	Regulation of fat cell mass by insulin in <i>Drosophila melanogaster</i> . <i>Molecular and Cellular Biology</i> , 2009 , 29, 6341-52	4.8	111
131	Opposing roles for Akt1 and Akt2 in Rac/Pak signaling and cell migration. <i>Journal of Biological Chemistry</i> , 2006 , 281, 36443-53	5.4	111
130	Insulin signaling to hepatic lipid metabolism in health and disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2011 , 46, 200-15	8.7	110
129	PPAR α contributes to PKM2 and HK2 expression in fatty liver. <i>Nature Communications</i> , 2012 , 3, 672	17.4	107
128	Isolation of a <i>Drosophila</i> genomic sequence homologous to the kinase domain of the human insulin receptor and detection of the phosphorylated <i>Drosophila</i> receptor with an anti-peptide antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 4710-4	11.5	106
127	Membrane depolarization is the trigger for PI3K/Akt activation and leads to the generation of ROS. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H105-14	5.2	105
126	Neuregulin signaling through a PI3K/Akt/Bad pathway in Schwann cell survival. <i>Molecular and Cellular Neurosciences</i> , 2001 , 17, 761-7	4.8	105
125	Akt1 and Akt2 are required for alphabeta thymocyte survival and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12105-10	11.5	104
124	Molecular and genetic studies imply Akt-mediated signaling promotes protein kinase C β 11 alternative splicing via phosphorylation of serine/arginine-rich splicing factor SRp40. <i>Journal of Biological Chemistry</i> , 2005 , 280, 14302-9	5.4	101
123	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. <i>Nature Communications</i> , 2014 , 5, 4535	17.4	99
122	Hepatic insulin signalling is dispensable for suppression of glucose output by insulin in vivo. <i>Nature Communications</i> , 2015 , 6, 7078	17.4	98
121	A conserved role for phosphatidylinositol 3-kinase but not Akt signaling in mitochondrial adaptations that accompany physiological cardiac hypertrophy. <i>Cell Metabolism</i> , 2007 , 6, 294-306	24.6	98
120	Regulation of angiogenesis by glycogen synthase kinase-3 β . <i>Journal of Biological Chemistry</i> , 2002 , 277, 41888-96	5.4	96
119	Postprandial hepatic lipid metabolism requires signaling through Akt2 independent of the transcription factors FoxA2, FoxO1, and SREBP1c. <i>Cell Metabolism</i> , 2011 , 14, 516-27	24.6	93

118	Selective suppression of AMP-activated protein kinase in skeletal muscle: update on Razy miceR <i>Biochemical Society Transactions</i> , 2003 , 31, 236-41	5.1	90
117	Insulin receptor substrate 1 mediates insulin and insulin-like growth factor I-stimulated maturation of <i>Xenopus</i> oocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 5172-5	11.5	88
116	Defects in secretion, aggregation, and thrombus formation in platelets from mice lacking Akt2. <i>Journal of Clinical Investigation</i> , 2004 , 113, 441-50	15.9	88
115	TLR4-mediated AKT activation is MyD88/TRIF dependent and critical for induction of oxidative phosphorylation and mitochondrial transcription factor A in murine macrophages. <i>Journal of Immunology</i> , 2012 , 188, 2847-57	5.3	86
114	ADP-ribosylation factor 6 regulates insulin secretion through plasma membrane phosphatidylinositol 4,5-bisphosphate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13320-5	11.5	85
113	Identification of wortmannin-sensitive targets in 3T3-L1 adipocytes. DissociationOf insulin-stimulated glucose uptake and glut4 translocation. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24677-84	5.4	83
112	Oxalic acid and diacylglycerol 36:3 are cross-species markers of sleep debt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 2569-74	11.5	81
111	Signaling pathways mediating insulin-stimulated glucose transport. <i>Annals of the New York Academy of Sciences</i> , 1999 , 892, 169-86	6.5	81
110	Insulin-responsive aminopeptidase trafficking in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 2000 , 275, 2560-7	5.4	79
109	The critical role of AKT2 in hepatic steatosis induced by PTEN loss. <i>American Journal of Pathology</i> , 2010 , 176, 2302-8	5.8	77
108	Isoform-specific requirement for Akt1 in the developmental regulation of cellular metabolism during lactation. <i>Cell Metabolism</i> , 2006 , 4, 475-90	24.6	74
107	Identification of a nonneuronal isoform of synaptotagmin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 5895-9	11.5	74
106	Expansion of hepatic tumor progenitor cells in Pten-null mice requires liver injury and is reversed by loss of AKT2. <i>Gastroenterology</i> , 2010 , 139, 2170-82	13.3	72
105	Spontaneous Hepatocellular Carcinoma after the Combined Deletion of Akt Isoforms. <i>Cancer Cell</i> , 2016 , 29, 523-535	24.3	71
104	Activation of Liver AMPK with PF-06409577 Corrects NAFLD and Lowers Cholesterol in Rodent and Primate Preclinical Models. <i>EBioMedicine</i> , 2018 , 31, 122-132	8.8	69
103	Activating AMP-activated protein kinase without AMP. <i>Molecular Cell</i> , 2005 , 19, 289-90	17.6	69
102	Akt1 and Akt2 promote peripheral B-cell maturation and survival. <i>Blood</i> , 2010 , 115, 4043-50	2.2	67
101	Akt2, phosphatidylinositol 3-kinase, and PTEN are in lipid rafts of intestinal cells: role in absorption and differentiation. <i>Gastroenterology</i> , 2004 , 126, 122-35	13.3	67

100	Akt1 deficiency in schizophrenia and impairment of hippocampal plasticity and function. <i>Hippocampus</i> , 2012 , 22, 230-40	3.5	64
99	Natural and inducible TH17 cells are regulated differently by Akt and mTOR pathways. <i>Nature Immunology</i> , 2013 , 14, 611-8	19.1	63
98	Isoform-specific regulation of adipocyte differentiation by Akt/protein kinase Balpha. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 371, 138-43	3.4	63
97	Turning down insulin signaling. <i>Journal of Clinical Investigation</i> , 2001 , 108, 655-659	15.9	63
96	A role for the serine/threonine kinase, Akt, in insulin-stimulated glucose uptake. <i>Biochemical Society Transactions</i> , 1997 , 25, 981-8	5.1	61
95	PGC-1alpha gene expression is down-regulated by Akt- mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. <i>FASEB Journal</i> , 2005 , 19, 2072-4	0.9	61
94	Mechanisms of glucocorticoid hormone action. <i>The Journal of Steroid Biochemistry</i> , 1984 , 20, 77-88		60
93	A noncanonical, GSK3-independent pathway controls postprandial hepatic glycogen deposition. <i>Cell Metabolism</i> , 2013 , 18, 99-105	24.6	59
92	AKT-dependent HspB1 (Hsp27) activity in epidermal differentiation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17297-305	5.4	59
91	The tyrosine kinases Syk and Lyn exert opposing effects on the activation of protein kinase Akt/PKB in B lymphocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 6890-5	11.5	58
90	Loss of PIP5KIgamma, unlike other PIP5KI isoforms, impairs the integrity of the membrane cytoskeleton in murine megakaryocytes. <i>Journal of Clinical Investigation</i> , 2008 , 118, 812-9	15.9	55
89	AMP kinase is not required for the GLUT4 response to exercise and denervation in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E739-43	6	53
88	Differentiation-dependent suppression of platelet-derived growth factor signaling in cultured adipocytes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 23858-67	5.4	52
87	Control of gluconeogenesis by metformin: does redox trump energy charge?. <i>Cell Metabolism</i> , 2014 , 20, 197-9	24.6	51
86	Polyoma middle T antigen activates the Ser/Thr kinase Akt in a PI3-kinase-dependent manner. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 246, 76-81	3.4	51
85	Expression of a glucose transporter gene cloned from brain in cellular models of insulin resistance: dexamethasone decreases transporter mRNA in primary cultured adipocytes. <i>Molecular Endocrinology</i> , 1989 , 3, 1132-41		50
84	Constitutively active Akt1 expression in mouse pancreas requires S6 kinase 1 for insulinoma formation. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3629-38	15.9	50
83	The Role of PDE3B Phosphorylation in the Inhibition of Lipolysis by Insulin. <i>Molecular and Cellular Biology</i> , 2015 , 35, 2752-60	4.8	49

82	Activation of Akt is essential for the propagation of mitochondrial respiratory stress signaling and activation of the transcriptional coactivator heterogeneous ribonucleoprotein A2. <i>Molecular Biology of the Cell</i> , 2010 , 21, 3578-89	3.5	49
81	A novel Akt3 mutation associated with enhanced kinase activity and seizure susceptibility in mice. <i>Human Molecular Genetics</i> , 2011 , 20, 988-99	5.6	49
80	Selective Activation of AMPK 1-Containing Isoforms Improves Kidney Function in a Rat Model of Diabetic Nephropathy. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017 , 361, 303-311	4.7	47
79	Different signaling roles of SHPTP2 in insulin-induced GLUT1 expression and GLUT4 translocation. <i>Journal of Biological Chemistry</i> , 1995 , 270, 12965-8	5.4	46
78	Akt deficiency attenuates muscle size and function but not the response to ActRIIB inhibition. <i>PLoS ONE</i> , 2010 , 5, e12707	3.7	46
77	Loss of Akt1 in mice increases energy expenditure and protects against diet-induced obesity. <i>Molecular and Cellular Biology</i> , 2012 , 32, 96-106	4.8	44
76	SREBP1c-CRY1 signalling represses hepatic glucose production by promoting FOXO1 degradation during refeeding. <i>Nature Communications</i> , 2016 , 7, 12180	17.4	42
75	Lack of AKT in adipocytes causes severe lipodystrophy. <i>Molecular Metabolism</i> , 2016 , 5, 472-479	8.8	41
74	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. <i>Journal of Biological Chemistry</i> , 2013 , 288, 33966-33977	5.4	41
73	Ciliary neurotrophic factor stimulates muscle glucose uptake by a PI3-kinase-dependent pathway that is impaired with obesity. <i>Diabetes</i> , 2009 , 58, 829-39	0.9	40
72	Platelet-derived growth factor (PDGF) stimulates glucose transport in 3T3-L1 adipocytes overexpressing PDGF receptor by a pathway independent of insulin receptor substrates. <i>Endocrinology</i> , 2003 , 144, 3811-20	4.8	40
71	ADP-ribosylation factor 6 delineates separate pathways used by endothelin 1 and insulin for stimulating glucose uptake in 3T3-L1 adipocytes. <i>Molecular and Cellular Biology</i> , 2001 , 21, 5276-85	4.8	40
70	Cellular insulin action and insulin resistance. <i>Baillieres Clinical Endocrinology and Metabolism</i> , 1993 , 7, 785-873		39
69	Transformation stimulates glucose transporter gene expression in the absence of protein kinase C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 8252-6	11.5	38
68	GLUT4, AMP kinase, but not the insulin receptor, are required for hepatportal glucose sensor-stimulated muscle glucose utilization. <i>Journal of Clinical Investigation</i> , 2003 , 111, 1555-1562	15.9	38
67	mTORC1 stimulates phosphatidylcholine synthesis to promote triglyceride secretion. <i>Journal of Clinical Investigation</i> , 2017 , 127, 4207-4215	15.9	38
66	Lysophosphatidic acid induces cell migration through the selective activation of Akt1. <i>Experimental and Molecular Medicine</i> , 2008 , 40, 445-52	12.8	37
65	Normal Akt/PKB with reduced PI3K activation in insulin-resistant mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E1249-54	6	37

64	AMPK supports growth in <i>Drosophila</i> by regulating muscle activity and nutrient uptake in the gut. <i>Developmental Biology</i> , 2010 , 344, 293-303	3.1	36
63	The aetiology and molecular landscape of insulin resistance. <i>Nature Reviews Molecular Cell Biology</i> , 2021 , 22, 751-771	48.7	35
62	Akt is required for Stat5 activation and mammary differentiation. <i>Breast Cancer Research</i> , 2010 , 12, R72	8.3	34
61	Akt-mediated foxo1 inhibition is required for liver regeneration. <i>Hepatology</i> , 2016 , 63, 1660-74	11.2	34
60	Akt pathway is hypoactivated by synergistic actions of diabetes mellitus and hypercholesterolemia resulting in advanced coronary artery disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H699-706	5.2	31
59	Quantitative analysis of anti-apoptotic function of Akt in Akt1 and Akt2 double knock-out mouse embryonic fibroblast cells under normal and stressed conditions. <i>Journal of Biological Chemistry</i> , 2006 , 281, 31380-8	5.4	31
58	Glucagon: acute actions on hepatic metabolism. <i>Diabetologia</i> , 2016 , 59, 1376-1381	10.3	31
57	Role of insulin-like growth factor-binding protein 5 (IGFBP5) in organismal and pancreatic beta-cell growth. <i>Molecular Endocrinology</i> , 2010 , 24, 178-92		29
56	Targeting hepatic glutaminase activity to ameliorate hyperglycemia. <i>Nature Medicine</i> , 2018 , 24, 518-524	50.5	28
55	Mio/dChREBP coordinately increases fat mass by regulating lipid synthesis and feeding behavior in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012 , 426, 43-8	3.4	28
54	Phosphorylation of GATA-6 is required for vascular smooth muscle cell differentiation after mTORC1 inhibition. <i>Science Signaling</i> , 2015 , 8, ra44	8.8	27
53	Differential regulation of Akt/protein kinase B isoforms during cell cycle progression. <i>FEBS Letters</i> , 2009 , 583, 685-90	3.8	27
52	Innate Immune Signaling in <i>Drosophila</i> Blocks Insulin Signaling by Uncoupling PI(3,4,5)P Production and Akt Activation. <i>Cell Reports</i> , 2018 , 22, 2550-2556	10.6	26
51	Physiology. De-meaning of metabolism. <i>Science</i> , 2012 , 336, 1651-2	33.3	26
50	Linker region of Akt1/protein kinase B α mediates platelet-derived growth factor-induced translocation and cell migration. <i>Cellular Signalling</i> , 2008 , 20, 2030-7	4.9	26
49	PI3K regulates pleckstrin-2 in T-cell cytoskeletal reorganization. <i>Blood</i> , 2007 , 109, 1147-55	2.2	25
48	Lipolysis: more than just a lipase. <i>Journal of Cell Biology</i> , 2003 , 161, 1011-2	7.3	24
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