

Grahame Hardie

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287
papers

52,457
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228
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331
ext. papers

57,357
ext. citations

9.7
avg, IF

8.34
L-index

#	Paper	IF	Citations
287	AMPK: a nutrient and energy sensor that maintains energy homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2012 , 13, 251-62	48.7	2712
286	AMP-activated protein kinase: ancient energy gauge provides clues to modern understanding of metabolism. <i>Cell Metabolism</i> , 2005 , 1, 15-25	24.6	2257
285	AMP-activated/SNF1 protein kinases: conserved guardians of cellular energy. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 774-85	48.7	1704
284	Complexes between the LKB1 tumor suppressor, STRAD alpha/beta and MO25 alpha/beta are upstream kinases in the AMP-activated protein kinase cascade. <i>Journal of Biology</i> , 2003 , 2, 28		1283
283	The AMP-activated/SNF1 protein kinase subfamily: metabolic sensors of the eukaryotic cell?. <i>Annual Review of Biochemistry</i> , 1998 , 67, 821-55	29.1	1282
282	Calmodulin-dependent protein kinase kinase-beta is an alternative upstream kinase for AMP-activated protein kinase. <i>Cell Metabolism</i> , 2005 , 2, 9-19	24.6	1245
281	AMP-activated protein kinase: an energy sensor that regulates all aspects of cell function. <i>Genes and Development</i> , 2011 , 25, 1895-908	12.6	1056
280	LKB1 is a master kinase that activates 13 kinases of the AMPK subfamily, including MARK/PAR-1. <i>EMBO Journal</i> , 2004 , 23, 833-43	13	1055
279	The AMP-activated protein kinase--fuel gauge of the mammalian cell?. <i>FEBS Journal</i> , 1997 , 246, 259-73		1024
278	AMP-activated protein kinase in metabolic control and insulin signaling. <i>Circulation Research</i> , 2007 , 100, 328-41	15.7	997
277	Characterization of the AMP-activated protein kinase kinase from rat liver and identification of threonine 172 as the major site at which it phosphorylates AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27879-87	5.4	940
276	The AMP-activated protein kinase pathway--new players upstream and downstream. <i>Journal of Cell Science</i> , 2004 , 117, 5479-87	5.3	935
275	5-aminoimidazole-4-carboxamide ribonucleoside. A specific method for activating AMP-activated protein kinase in intact cells?. <i>FEBS Journal</i> , 1995 , 229, 558-65		929
274	The mechanisms of action of metformin. <i>Diabetologia</i> , 2017 , 60, 1577-1585	10.3	870
273	Minireview: the AMP-activated protein kinase cascade: the key sensor of cellular energy status. <i>Endocrinology</i> , 2003 , 144, 5179-83	4.8	793
272	Metabolism of inflammation limited by AMPK and pseudo-starvation. <i>Nature</i> , 2013 , 493, 346-55	50.4	765
271	AMP-activated protein kinase: the energy charge hypothesis revisited. <i>BioEssays</i> , 2001 , 23, 1112-9	4.1	652

270	Management of cellular energy by the AMP-activated protein kinase system. <i>FEBS Letters</i> , 2003 , 546, 113-20	3.8	632
269	AMP-activated protein kinase--development of the energy sensor concept. <i>Journal of Physiology</i> , 2006 , 574, 7-15	3.9	604
268	Use of cells expressing gamma subunit variants to identify diverse mechanisms of AMPK activation. <i>Cell Metabolism</i> , 2010 , 11, 554-65	24.6	565
267	CBS domains form energy-sensing modules whose binding of adenosine ligands is disrupted by disease mutations. <i>Journal of Clinical Investigation</i> , 2004 , 113, 274-84	15.9	558
266	The ancient drug salicylate directly activates AMP-activated protein kinase. <i>Science</i> , 2012 , 336, 918-22	33.3	539
265	The antidiabetic drug metformin activates the AMP-activated protein kinase cascade via an adenine nucleotide-independent mechanism. <i>Diabetes</i> , 2002 , 51, 2420-5	0.9	535
264	AMPK: An Energy-Sensing Pathway with Multiple Inputs and Outputs. <i>Trends in Cell Biology</i> , 2016 , 26, 190-201	18.3	508
263	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013 , 19, 1649-54	50.5	503
262	AMPK: a key regulator of energy balance in the single cell and the whole organism. <i>International Journal of Obesity</i> , 2008 , 32 Suppl 4, S7-12	5.5	501
261	Characterization of AMP-activated protein kinase β subunit isoforms and their role in AMP binding. <i>Biochemical Journal</i> , 2000 , 346, 659-669	3.8	472
260	Deficiency of LKB1 in skeletal muscle prevents AMPK activation and glucose uptake during contraction. <i>EMBO Journal</i> , 2005 , 24, 1810-20	13	436
259	5PAMP inhibits dephosphorylation, as well as promoting phosphorylation, of the AMP-activated protein kinase. Studies using bacterially expressed human protein phosphatase-2C alpha and native bovine protein phosphatase-2AC. <i>FEBS Letters</i> , 1995 , 377, 421-5	3.8	428
258	AMPK: Sensing Glucose as well as Cellular Energy Status. <i>Cell Metabolism</i> , 2018 , 27, 299-313	24.6	428
257	Regulation of fatty acid synthesis and oxidation by the AMP-activated protein kinase. <i>Biochemical Society Transactions</i> , 2002 , 30, 1064-70	5.1	413
256	Aging-associated reductions in AMP-activated protein kinase activity and mitochondrial biogenesis. <i>Cell Metabolism</i> , 2007 , 5, 151-6	24.6	391
255	AMP-activated protein kinase: greater AMP dependence, and preferential nuclear localization, of complexes containing the alpha2 isoform. <i>Biochemical Journal</i> , 1998 , 334 (Pt 1), 177-87	3.8	385
254	AMPK--sensing energy while talking to other signaling pathways. <i>Cell Metabolism</i> , 2014 , 20, 939-52	24.6	382
253	Tissue distribution of the AMP-activated protein kinase, and lack of activation by cyclic-AMP-dependent protein kinase, studied using a specific and sensitive peptide assay. <i>FEBS Journal</i> , 1989 , 186, 123-8		374

252	AMPK: a key sensor of fuel and energy status in skeletal muscle. <i>Physiology</i> , 2006 , 21, 48-60	9.8	364
251	Role of the AMP-activated protein kinase in the cellular stress response. <i>Current Biology</i> , 1994 , 4, 315-246.3		364
250	Cannabinoids and ghrelin have both central and peripheral metabolic and cardiac effects via AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25196-201	5.4	361
249	AMP-activated protein kinase is activated by low glucose in cell lines derived from pancreatic beta cells, and may regulate insulin release. <i>Biochemical Journal</i> , 1998 , 335 (Pt 3), 533-9	3.8	352
248	AMP-activated protein kinase as a drug target. <i>Annual Review of Pharmacology and Toxicology</i> , 2007 , 47, 185-210	17.9	345
247	5PAMP activates the AMP-activated protein kinase cascade, and Ca ²⁺ /calmodulin activates the calmodulin-dependent protein kinase I cascade, via three independent mechanisms. <i>Journal of Biological Chemistry</i> , 1995 , 270, 27186-91	5.4	339
246	AMP is a true physiological regulator of AMP-activated protein kinase by both allosteric activation and enhancing net phosphorylation. <i>Cell Metabolism</i> , 2013 , 18, 556-66	24.6	336
245	Purification and characterization of the AMP-activated protein kinase. Copurification of acetyl-CoA carboxylase kinase and 3-hydroxy-3-methylglutaryl-CoA reductase kinase activities. <i>FEBS Journal</i> , 1989 , 186, 129-36		333
244	Mechanism of action of A-769662, a valuable tool for activation of AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 32549-60	5.4	329
243	The glycogen-binding domain on the AMPK beta subunit allows the kinase to act as a glycogen sensor. <i>Cell Metabolism</i> , 2009 , 9, 23-34	24.6	322
242	Common variants near ATM are associated with glycemic response to metformin in type 2 diabetes. <i>Nature Genetics</i> , 2011 , 43, 117-20	36.3	319
241	AMPK: a target for drugs and natural products with effects on both diabetes and cancer. <i>Diabetes</i> , 2013 , 62, 2164-72	0.9	313
240	Stearoyl-CoA desaturase 1 deficiency increases fatty acid oxidation by activating AMP-activated protein kinase in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 6409-14	11.5	312
239	AMPK: positive and negative regulation, and its role in whole-body energy homeostasis. <i>Current Opinion in Cell Biology</i> , 2015 , 33, 1-7	9	306
238	Fructose-1,6-bisphosphate and aldolase mediate glucose sensing by AMPK. <i>Nature</i> , 2017 , 548, 112-116	50.4	300
237	AMP-activated protein kinase: an ultrasensitive system for monitoring cellular energy charge. <i>Biochemical Journal</i> , 1999 , 338, 717-722	3.8	286
236	AMP-activated protein kinase: a target for drugs both ancient and modern. <i>Chemistry and Biology</i> , 2012 , 19, 1222-36		280
235	A novel domain in AMP-activated protein kinase causes glycogen storage bodies similar to those seen in hereditary cardiac arrhythmias. <i>Current Biology</i> , 2003 , 13, 861-6	6.3	275

234	Development of protein kinase activators: AMPK as a target in metabolic disorders and cancer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 581-91	4	274
233	SNF1-related protein kinases: global regulators of carbon metabolism in plants?. <i>Plant Molecular Biology</i> , 1998 , 37, 735-48	4.6	270
232	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca ²⁺ in T lymphocytes. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1665-70	16.6	266
231	Similar substrate recognition motifs for mammalian AMP-activated protein kinase, higher plant HMG-CoA reductase kinase-A, yeast SNF1, and mammalian calmodulin-dependent protein kinase I. <i>FEBS Letters</i> , 1995 , 361, 191-5	3.8	265
230	Sensing of energy and nutrients by AMP-activated protein kinase. <i>American Journal of Clinical Nutrition</i> , 2011 , 93, 891S-6	7	263
229	Dual regulation of the AMP-activated protein kinase provides a novel mechanism for the control of creatine kinase in skeletal muscle. <i>EMBO Journal</i> , 1998 , 17, 1688-99	13	251
228	Activity of LKB1 and AMPK-related kinases in skeletal muscle: effects of contraction, phenformin, and AICAR. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E310-7	6	250
227	Regulation of AMP-activated protein kinase activity and substrate utilization in exercising human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 284, E813-22	6	242
226	The substrate and sequence specificity of the AMP-activated protein kinase. Phosphorylation of glycogen synthase and phosphorylase kinase. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1989 , 1012, 81-6	4.9	237
225	Phosphorylation of bovine hormone-sensitive lipase by the AMP-activated protein kinase. A possible antilipolytic mechanism. <i>FEBS Journal</i> , 1989 , 179, 249-54		229
224	Elm1p is one of three upstream kinases for the <i>Saccharomyces cerevisiae</i> SNF1 complex. <i>Current Biology</i> , 2003 , 13, 1299-305	6.3	228
223	LKB1 and AMPK and the cancer-metabolism link - ten years after. <i>BMC Biology</i> , 2013 , 11, 36	7.3	225
222	New roles for the LKB1-->AMPK pathway. <i>Current Opinion in Cell Biology</i> , 2005 , 17, 167-73	9	223
221	Glycogen-dependent effects of 5-aminoimidazole-4-carboxamide (AICA)-riboside on AMP-activated protein kinase and glycogen synthase activities in rat skeletal muscle. <i>Diabetes</i> , 2002 , 51, 284-92	0.9	223
220	Two SNF1-related protein kinases from spinach leaf phosphorylate and inactivate 3-hydroxy-3-methylglutaryl-coenzyme A reductase, nitrate reductase, and sucrose phosphate synthase in vitro. <i>Plant Physiology</i> , 1999 , 120, 257-74	6.6	223
219	The alpha1 and alpha2 isoforms of the AMP-activated protein kinase have similar activities in rat liver but exhibit differences in substrate specificity in vitro. <i>FEBS Letters</i> , 1996 , 397, 347-51	3.8	219
218	Evidence for biological effects of metformin in operable breast cancer: a pre-operative, window-of-opportunity, randomized trial. <i>Breast Cancer Research and Treatment</i> , 2011 , 128, 783-94	4.4	217
217	SnRK1 (SNF1-related kinase 1) has a central role in sugar and ABA signalling in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2009 , 59, 316-28	6.9	217

216	Identification by amino acid sequencing of three major regulatory phosphorylation sites on rat acetyl-CoA carboxylase. <i>FEBS Journal</i> , 1988 , 175, 331-8		211
215	Location and function of three sites phosphorylated on rat acetyl-CoA carboxylase by the AMP-activated protein kinase. <i>FEBS Journal</i> , 1990 , 187, 183-90		208
214	AMP-activated protein kinase: a cellular energy sensor that comes in 12 flavours. <i>FEBS Journal</i> , 2016 , 283, 2987-3001	5.7	204
213	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). <i>Journal of Cell Science</i> , 2002 , 115, 2433-2442	5.3	198
212	The alpha2-5AMP-activated protein kinase is a site 2 glycogen synthase kinase in skeletal muscle and is responsive to glucose loading. <i>Diabetes</i> , 2004 , 53, 3074-81	0.9	197
211	5PAMP-activated protein kinase phosphorylates IRS-1 on Ser-789 in mouse C2C12 myotubes in response to 5-aminoimidazole-4-carboxamide riboside. <i>Journal of Biological Chemistry</i> , 2001 , 276, 46912-6	5.4	195
210	AMP-activated kinase regulates cytoplasmic HuR. <i>Molecular and Cellular Biology</i> , 2002 , 22, 3425-36	4.8	190
209	The Na ⁺ /Glucose Cotransporter Inhibitor Canagliflozin Activates AMPK by Inhibiting Mitochondrial Function and Increasing Cellular AMP Levels. <i>Diabetes</i> , 2016 , 65, 2784-94	0.9	190
208	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). <i>Journal of Cell Science</i> , 2002 , 115, 2433-42	5.3	189
207	Role of AMP-activated protein kinase in the regulation by glucose of islet beta cell gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 4023-8	11.5	188
206	Evidence that AMP triggers phosphorylation as well as direct allosteric activation of rat liver AMP-activated protein kinase. A sensitive mechanism to protect the cell against ATP depletion. <i>FEBS Journal</i> , 1991 , 199, 691-7		186
205	AMP-activated protein kinase: a key regulator of energy balance with many roles in human disease. <i>Journal of Internal Medicine</i> , 2014 , 276, 543-59	10.8	180
204	Regulation of spinach SNF1-related (SnRK1) kinases by protein kinases and phosphatases is associated with phosphorylation of the T loop and is regulated by 5PAMP. <i>Plant Journal</i> , 1999 , 19, 433-9	6.9	164
203	AMPK and TOR: The Yin and Yang of Cellular Nutrient Sensing and Growth Control. <i>Cell Metabolism</i> , 2020 , 31, 472-492	24.6	163
202	Regulation of fatty acid synthesis via phosphorylation of acetyl-CoA carboxylase. <i>Progress in Lipid Research</i> , 1989 , 28, 117-46	14.3	160
201	AMP-activated protein kinase: maintaining energy homeostasis at the cellular and whole-body levels. <i>Annual Review of Nutrition</i> , 2014 , 34, 31-55	9.9	159
200	The AMP-activated protein kinase: a multisubstrate regulator of lipid metabolism. <i>Trends in Biochemical Sciences</i> , 1989 , 14, 20-23	10.3	159
199	Role of AMP-activated protein kinase in the metabolic syndrome and in heart disease. <i>FEBS Letters</i> , 2008 , 582, 81-9	3.8	156

198	AMPK: regulating energy balance at the cellular and whole body levels. <i>Physiology</i> , 2014 , 29, 99-107	9.8	152
197	AMPK promotes p53 acetylation via phosphorylation and inactivation of SIRT1 in liver cancer cells. <i>Cancer Research</i> , 2012 , 72, 4394-404	10.1	152
196	AMPK and autophagy get connected. <i>EMBO Journal</i> , 2011 , 30, 634-5	13	148
195	Protein kinase substrate recognition studied using the recombinant catalytic domain of AMP-activated protein kinase and a model substrate. <i>Journal of Molecular Biology</i> , 2002 , 317, 309-23	6.5	143
194	Regulation of multisite phosphorylation and 14-3-3 binding of AS160 in response to IGF-1, EGF, PMA and AICAR. <i>Biochemical Journal</i> , 2007 , 407, 231-41	3.8	141
193	Does AMP-activated protein kinase couple inhibition of mitochondrial oxidative phosphorylation by hypoxia to calcium signaling in O ₂ -sensing cells?. <i>Journal of Biological Chemistry</i> , 2005 , 280, 41504-11	5.4	139
192	Diurnal rhythm of phosphorylation of rat liver acetyl-CoA carboxylase by the AMP-activated protein kinase, demonstrated using freeze-clamping. Effects of high fat diets. <i>FEBS Journal</i> , 1992 , 203, 615-23		138
191	Phosphorylation by Akt within the ST loop of AMPK- β down-regulates its activation in tumour cells. <i>Biochemical Journal</i> , 2014 , 459, 275-87	3.8	137
190	AMP-activated protein kinase: also regulated by ADP?. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 470-7	10.3	132
189	Physiological role of AMP-activated protein kinase in the heart: graded activation during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E629-36	6	132
188	Characterization of AMP-activated protein kinase β subunit isoforms and their role in AMP binding. <i>Biochemical Journal</i> , 2000 , 346, 659	3.8	132
187	AMP-activated protein kinase: a cellular energy sensor with a key role in metabolic disorders and in cancer. <i>Biochemical Society Transactions</i> , 2011 , 39, 1-13	5.1	131
186	AMP-activated protein kinase: a key system mediating metabolic responses to exercise. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 28-34	1.2	127
185	Phosphorylation control of cardiac acetyl-CoA carboxylase by cAMP-dependent protein kinase and 5PAMP activated protein kinase. <i>FEBS Journal</i> , 1999 , 262, 184-90		125
184	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E665-75	6	123
183	Fatal congenital heart glycogenosis caused by a recurrent activating R531Q mutation in the gamma 2-subunit of AMP-activated protein kinase (PRKAG2), not by phosphorylase kinase deficiency. <i>American Journal of Human Genetics</i> , 2005 , 76, 1034-49	11	123
182	5PAMP-activated protein kinase activity and subunit expression in exercise-trained human skeletal muscle. <i>Journal of Applied Physiology</i> , 2003 , 94, 631-41	3.7	120
181	Stearoyl-CoA desaturase-1 deficiency reduces ceramide synthesis by downregulating serine palmitoyltransferase and increasing beta-oxidation in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E599-607	6	120

180	Purification of the AMP-activated protein kinase on ATP-gamma-sepharose and analysis of its subunit structure. <i>FEBS Journal</i> , 1994 , 223, 351-7		118
179	5PAMP-activated protein kinase activity and protein expression are regulated by endurance training in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 286, E411-7	6	117
178	Analysis of the LKB1-STRAD-MO25 complex. <i>Journal of Cell Science</i> , 2004 , 117, 6365-75	5.3	117
177	AMP-Activated Protein Kinase: An Ubiquitous Signaling Pathway With Key Roles in the Cardiovascular System. <i>Circulation Research</i> , 2017 , 120, 1825-1841	15.7	116
176	AMP-activated protein kinase mediates carotid body excitation by hypoxia. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8092-8	5.4	115
175	AICA riboside both activates AMP-activated protein kinase and competes with adenosine for the nucleoside transporter in the CA1 region of the rat hippocampus. <i>Journal of Neurochemistry</i> , 2004 , 88, 1272-82	6	111
174	Enhanced hepatitis C virus genome replication and lipid accumulation mediated by inhibition of AMP-activated protein kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 11549-54	11.5	109
173	Increased phosphorylation of skeletal muscle glycogen synthase at NH2-terminal sites during physiological hyperinsulinemia in type 2 diabetes. <i>Diabetes</i> , 2003 , 52, 1393-402	0.9	109
172	Bacterial expression of the catalytic domain of 3-hydroxy-3-methylglutaryl-CoA reductase (isoform HMGR1) from <i>Arabidopsis thaliana</i> , and its inactivation by phosphorylation at Ser577 by <i>Brassica oleracea</i> 3-hydroxy-3-methylglutaryl-CoA reductase kinase. <i>FEBS Journal</i> , 1995 , 233, 506-13		109
171	Differential regulation by AMP and ADP of AMPK complexes containing different β subunit isoforms. <i>Biochemical Journal</i> , 2016 , 473, 189-99	3.8	108
170	AMPK and Raptor: matching cell growth to energy supply. <i>Molecular Cell</i> , 2008 , 30, 263-5	17.6	106
169	Molecular Pathways: Is AMPK a Friend or a Foe in Cancer?. <i>Clinical Cancer Research</i> , 2015 , 21, 3836-40	12.9	105
168	Reversible phosphorylation and inactivation of acetyl-CoA carboxylase from lactating rat mammary gland by cyclic AMP-dependent protein kinase. <i>FEBS Journal</i> , 1980 , 110, 167-77		104
167	Regulation of AMP-activated protein kinase by natural and synthetic activators. <i>Acta Pharmaceutica Sinica B</i> , 2016 , 6, 1-19	15.5	103
166	AMPK: a cellular energy sensor primarily regulated by AMP. <i>Biochemical Society Transactions</i> , 2014 , 42, 71-5	5.1	100
165	AMP-activated protein kinase: an ultrasensitive system for monitoring cellular energy charge. <i>Biochemical Journal</i> , 1999 , 338, 717	3.8	100
164	Energy sensing by the AMP-activated protein kinase and its effects on muscle metabolism. <i>Proceedings of the Nutrition Society</i> , 2011 , 70, 92-9	2.9	99
163	Calmodulin-dependent protein kinase kinase-beta activates AMPK without forming a stable complex: synergistic effects of Ca ²⁺ and AMP. <i>Biochemical Journal</i> , 2010 , 426, 109-18	3.8	99

162	Effects of endurance training on activity and expression of AMP-activated protein kinase isoforms in rat muscles. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 283, E178-86	6	99
161	Evidence for a protein kinase cascade in higher plants. 3-Hydroxy-3-methylglutaryl-CoA reductase kinase. <i>FEBS Journal</i> , 1992 , 209, 923-31		96
160	A potential role for AMP-activated protein kinase in meiotic induction in mouse oocytes. <i>Developmental Biology</i> , 2002 , 245, 200-12	3.1	95
159	Phosphorylation of the voltage-gated potassium channel Kv2.1 by AMP-activated protein kinase regulates membrane excitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18132-7	11.5	90
158	Keeping the home fires burning: AMP-activated protein kinase. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	89
157	Mechanism of action of compound-13: an β -selective small molecule activator of AMPK. <i>Chemistry and Biology</i> , 2014 , 21, 866-79		87
156	Neither LKB1 nor AMPK are the direct targets of metformin. <i>Gastroenterology</i> , 2006 , 131, 973; author reply 974-5	13.3	87
155	5-aminoimidazole-4-carboxamide 1-beta-D-ribofuranoside acutely stimulates skeletal muscle 2-deoxyglucose uptake in healthy men. <i>Diabetes</i> , 2007 , 56, 2078-84	0.9	86
154	AMP-activated protein kinase: a master switch in glucose and lipid metabolism. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2004 , 5, 119-25	10.5	86
153	Glucagon inhibits fatty acid synthesis in isolated hepatocytes via phosphorylation of acetyl-CoA carboxylase by cyclic-AMP-dependent protein kinase. <i>FEBS Journal</i> , 1984 , 140, 325-33		86
152	Effect of fiber type and nutritional state on AICAR- and contraction-stimulated glucose transport in rat muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 282, E1291-300	6	85
151	AMP-activated protein kinase mediates phenobarbital induction of CYP2B gene expression in hepatocytes and a newly derived human hepatoma cell line. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4367-73	5.4	85
150	Normal hypertrophy accompanied by phosphorylation and activation of AMP-activated protein kinase alpha1 following overload in LKB1 knockout mice. <i>Journal of Physiology</i> , 2008 , 586, 1731-41	3.9	80
149	Oxidative stress activates AMPK in cultured cells primarily by increasing cellular AMP and/or ADP. <i>FEBS Letters</i> , 2014 , 588, 3361-6	3.8	77
148	AMP-activated protein kinase mediates VEGF-stimulated endothelial NO production. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 354, 1084-8	3.4	76
147	A homologue of AMP-activated protein kinase in <i>Drosophila melanogaster</i> is sensitive to AMP and is activated by ATP depletion. <i>Biochemical Journal</i> , 2002 , 367, 179-86	3.8	76
146	Analysis of the role of the AMP-activated protein kinase in the response to cellular stress. <i>Methods in Molecular Biology</i> , 2000 , 99, 63-74	1.4	75
145	Defining the contribution of AMP-activated protein kinase (AMPK) and protein kinase C (PKC) in regulation of glucose uptake by metformin in skeletal muscle cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20088-99	5.4	74

144	Sex differences in hormone-sensitive lipase expression, activity, and phosphorylation in skeletal muscle at rest and during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E1106-14	6	74
143	Regulation of hormone-sensitive lipase activity and Ser563 and Ser565 phosphorylation in human skeletal muscle during exercise. <i>Journal of Physiology</i> , 2004 , 560, 551-62	3.9	74
142	AMP-activated protein kinase: the guardian of cardiac energy status. <i>Journal of Clinical Investigation</i> , 2004 , 114, 465-468	15.9	71
141	Purification and physicochemical properties of ATP citrate (pro-3S) lyase from lactating rat mammary gland and studies of its reversible phosphorylation. <i>FEBS Journal</i> , 1981 , 114, 399-405		69
140	Role of 5AMP-activated protein kinase in glycogen synthase activity and glucose utilization: insights from patients with McArdle's disease. <i>Journal of Physiology</i> , 2002 , 541, 979-89	3.9	68
139	AMPK activity and isoform protein expression are similar in muscle of obese subjects with and without type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 286, E239-44	6.4	68
138	A novel short splice variant of the tumour suppressor LKB1 is required for spermiogenesis. <i>Biochemical Journal</i> , 2008 , 416, 1-14	3.8	66
137	Biochemical characterization of the tobacco 42-kD protein kinase activated by osmotic stress. <i>Plant Physiology</i> , 2004 , 136, 3255-65	6.6	66
136	Activation of rat liver AMP-activated protein kinase by kinase kinase in a purified, reconstituted system. Effects of AMP and AMP analogues. <i>FEBS Journal</i> , 1994 , 219, 751-7		66
135	The regulation of fatty acid biosynthesis: simple procedure for the purification of acetyl CoA carboxylase from lactating rabbit mammary gland, and its phosphorylation by endogenous cyclic AMP-dependent and -independent protein kinase activities. <i>FEBS Letters</i> , 1978 , 91, 1-7	3.8	65
134	Inhibition of adipose tissue lipolysis increases intramuscular lipid and glycogen use in vivo in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E482-93	6	60
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