

# Grahame Hardie

## List of Publications by Year in descending order

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295  
papers

62,042  
citations

807

118  
h-index

849

244  
g-index

331  
all docs

331  
docs citations

331  
times ranked

46869  
citing authors

#	ARTICLE	IF	CITATIONS
1	AMPK: a nutrient and energy sensor that maintains energy homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 13, 251-262.	16.1	3,463
2	AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. <i>Cell Metabolism</i> , 2005, 1, 15-25.	7.2	2,541
3	AMP-activated/SNF1 protein kinases: conserved guardians of cellular energy. <i>Nature Reviews Molecular Cell Biology</i> , 2007, 8, 774-785.	16.1	1,954
4	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.	2.7	1,427
5	The mechanisms of action of metformin. <i>Diabetologia</i> , 2017, 60, 1577-1585.	2.9	1,421
6	Calmodulin-dependent protein kinase kinase- $\beta$ is an alternative upstream kinase for AMP-activated protein kinase. <i>Cell Metabolism</i> , 2005, 2, 9-19.	7.2	1,397
7	THE AMP-ACTIVATED/SNF1 PROTEIN KINASE SUBFAMILY: Metabolic Sensors of the Eukaryotic Cell?. <i>Annual Review of Biochemistry</i> , 1998, 67, 821-855.	5.0	1,380
8	AMP-activated protein kinase – an energy sensor that regulates all aspects of cell function. <i>Genes and Development</i> , 2011, 25, 1895-1908.	2.7	1,298
9	LKB1 is a master kinase that activates 13 kinases of the AMPK subfamily, including MARK/PAR-1. <i>EMBO Journal</i> , 2004, 23, 833-843.	3.5	1,201
10	The AMP-Activated Protein Kinase. Fuel Gauge of the Mammalian Cell?. <i>FEBS Journal</i> , 1997, 246, 259-273.	0.2	1,154
11	AMP-Activated Protein Kinase in Metabolic Control and Insulin Signaling. <i>Circulation Research</i> , 2007, 100, 328-341.	2.0	1,117
12	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, 27879-27887.	1.6	1,076
13	5-Aminoimidazole-4-Carboxamide Ribonucleoside. A Specific Method for Activating AMP-Activated Protein Kinase in Intact Cells?. <i>FEBS Journal</i> , 1995, 229, 558-565.	0.2	1,053
14	The AMP-activated protein kinase pathway – new players upstream and downstream. <i>Journal of Cell Science</i> , 2004, 117, 5479-5487.	1.2	1,038
15	Metabolism of inflammation limited by AMPK and pseudo-starvation. <i>Nature</i> , 2013, 493, 346-355.	13.7	946
16	Minireview: The AMP-Activated Protein Kinase Cascade: The Key Sensor of Cellular Energy Status. <i>Endocrinology</i> , 2003, 144, 5179-5183.	1.4	894
17	AMPK: Sensing Glucose as well as Cellular Energy Status. <i>Cell Metabolism</i> , 2018, 27, 299-313.	7.2	757
18	Management of cellular energy by the AMP-activated protein kinase system. <i>FEBS Letters</i> , 2003, 546, 113-120.	1.3	721

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19	AMP-activated protein kinase: the energy charge hypothesis revisited. <i>BioEssays</i> , 2001, 23, 1112-1119.	1.2	715
20	AMPK: An Energy-Sensing Pathway with Multiple Inputs and Outputs. <i>Trends in Cell Biology</i> , 2016, 26, 190-201.	3.6	695
21	AMP-activated protein kinase - development of the energy sensor concept. <i>Journal of Physiology</i> , 2006, 574, 7-15.	1.3	681
22	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013, 19, 1649-1654.	15.2	674
23	Use of Cells Expressing $\hat{I}^3$ Subunit Variants to Identify Diverse Mechanisms of AMPK Activation. <i>Cell Metabolism</i> , 2010, 11, 554-565.	7.2	661
24	The Ancient Drug Salicylate Directly Activates AMP-Activated Protein Kinase. <i>Science</i> , 2012, 336, 918-922.	6.0	649
25	CBS domains form energy-sensing modules whose binding of adenosine ligands is disrupted by disease mutations. <i>Journal of Clinical Investigation</i> , 2004, 113, 274-284.	3.9	622
26	The Antidiabetic Drug Metformin Activates the AMP-Activated Protein Kinase Cascade via an Adenine Nucleotide-Independent Mechanism. <i>Diabetes</i> , 2002, 51, 2420-2425.	0.3	610
27	AMPK: a key regulator of energy balance in the single cell and the whole organism. <i>International Journal of Obesity</i> , 2008, 32, S7-S12.	1.6	556
28	Characterization of AMP-activated protein kinase $\hat{I}^3$ -subunit isoforms and their role in AMP binding. <i>Biochemical Journal</i> , 2000, 346, 659-669.	1.7	534
29	5â€²-AMP inhibits dephosphorylation, as well as promoting phosphorylation, of the AMP-activated protein kinase. Studies using bacterially expressed human protein phosphatase-2C1±and native bovine protein phosphatase-2Ac. <i>FEBS Letters</i> , 1995, 377, 421-425.	1.3	481
30	Regulation of fatty acid synthesis and oxidation by the AMP-activated protein kinase. <i>Biochemical Society Transactions</i> , 2002, 30, 1064-1070.	1.6	478
31	Deficiency of LKB1 in skeletal muscle prevents AMPK activation and glucose uptake during contraction. <i>EMBO Journal</i> , 2005, 24, 1810-1820.	3.5	478
32	Fructose-1,6-bisphosphate and aldolase mediate glucose sensing by AMPK. <i>Nature</i> , 2017, 548, 112-116.	13.7	469
33	AMPKâ€™Sensing Energy while Talking to Other Signaling Pathways. <i>Cell Metabolism</i> , 2014, 20, 939-952.	7.2	462
34	Aging-Associated Reductions in AMP-Activated Protein Kinase Activity and Mitochondrial Biogenesis. <i>Cell Metabolism</i> , 2007, 5, 151-156.	7.2	458
35	AMPK: A Key Sensor of Fuel and Energy Status in Skeletal Muscle. <i>Physiology</i> , 2006, 21, 48-60.	1.6	434
36	AMPK and TOR: The Yin and Yang of Cellular Nutrient Sensing and Growth Control. <i>Cell Metabolism</i> , 2020, 31, 472-492.	7.2	428

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37	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, 25196-25201.	1.6	425
38	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, 556-566.	7.2	413
39	AMP-activated protein kinase: greater AMP dependence, and preferential nuclear localization, of complexes containing the $\alpha_2$ isoform. <i>Biochemical Journal</i> , 1998, 334, 177-187.	1.7	410
40	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, 123-128.	0.2	402
41	Role of the AMP-activated protein kinase in the cellular stress response. <i>Current Biology</i> , 1994, 4, 315-324.	1.8	400
42	AMPK: positive and negative regulation, and its role in whole-body energy homeostasis. <i>Current Opinion in Cell Biology</i> , 2015, 33, 1-7.	2.6	391
43	Common variants near ATM are associated with glycemic response to metformin in type 2 diabetes. <i>Nature Genetics</i> , 2011, 43, 117-120.	9.4	390
44	5 $\alpha$ -AMP Activates the AMP-activated Protein Kinase Cascade, and Ca <sup>2+</sup> /Calmodulin Activates the Calmodulin-dependent Protein Kinase I Cascade, via Three Independent Mechanisms. <i>Journal of Biological Chemistry</i> , 1995, 270, 27186-27191.	1.6	385
45	The Glycogen-Binding Domain on the AMPK $\alpha_2$ Subunit Allows the Kinase to Act as a Glycogen Sensor. <i>Cell Metabolism</i> , 2009, 9, 23-34.	7.2	383
46	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, 533-539.	1.7	382
47	Mechanism of Action of A-769662, a Valuable Tool for Activation of AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 2007, 282, 32549-32560.	1.6	376
48	AMP-Activated Protein Kinase as a Drug Target. <i>Annual Review of Pharmacology and Toxicology</i> , 2007, 47, 185-210.	4.2	373
49	AMPK: A Target for Drugs and Natural Products With Effects on Both Diabetes and Cancer. <i>Diabetes</i> , 2013, 62, 2164-2172.	0.3	372
50	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, 129-136.	0.2	369
51	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, 6409-6414.	3.3	356
52	SNF1-related protein kinases: global regulators of carbon metabolism in plants?. <i>Plant Molecular Biology</i> , 1998, 37, 735-748.	2.0	319
53	AMP-activated protein kinase: an ultrasensitive system for monitoring cellular energy charge. <i>Biochemical Journal</i> , 1999, 338, 717-722.	1.7	318
54	AMP-Activated Protein Kinase: A Target for Drugs both Ancient and Modern. <i>Chemistry and Biology</i> , 2012, 19, 1222-1236.	6.2	315

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55	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, 581-591.	1.1	307
56	Sensing of energy and nutrients by AMP-activated protein kinase. <i>American Journal of Clinical Nutrition</i> , 2011, 93, 891S-896S.	2.2	303
57	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca <sup>2+</sup> in T lymphocytes. <i>Journal of Experimental Medicine</i> , 2006, 203, 1665-1670.	4.2	298
58	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, 861-866.	1.8	295
59	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, 191-195.	1.3	294
60	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, 1688-1699.	3.5	288
61	<sc>AMP</sc>-activated protein kinase: a cellular energy sensor that comes in 12 flavours. <i>FEBS Journal</i> , 2016, 283, 2987-3001.	2.2	288
62	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, 316-328.	2.8	287
63	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-E822.	1.8	281
64	The Na <sup>+</sup> /Glucose Cotransporter Inhibitor Canagliflozin Activates AMPK by Inhibiting Mitochondrial Function and Increasing Cellular AMP Levels. <i>Diabetes</i> , 2016, 65, 2784-2794.	0.3	277
65	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-E317.	1.8	273
66	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, 81-86.	1.9	265
67	LKB1 and AMPK and the cancer-metabolism link - ten years after. <i>BMC Biology</i> , 2013, 11, 36.	1.7	260
68	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, 783-794.	1.1	256
69	Identification by amino acid sequencing of three major regulatory phosphorylation sites on rat acetyl-CoA carboxylase. <i>FEBS Journal</i> , 1988, 175, 331-338.	0.2	249
70	Phosphorylation of bovine hormone-sensitive lipase by the AMP-activated protein kinase. A possible antipolytic mechanism. <i>FEBS Journal</i> , 1989, 179, 249-254.	0.2	249
71	Elm1p Is One of Three Upstream Kinases for the <i>Saccharomyces cerevisiae</i> SNF1 Complex. <i>Current Biology</i> , 2003, 13, 1299-1305.	1.8	249
72	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 Vitro1. <i>Plant Physiology</i> , 1999, 120, 257-274.	2.3	247

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73	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, 284-292.	0.3	238
74	New roles for the LKB1-AMPK pathway. <i>Current Opinion in Cell Biology</i> , 2005, 17, 167-173.	2.6	238
75	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.	1.2	238
76	Location and function of three sites phosphorylated on rat acetyl-CoA carboxylase by the AMP-activated protein kinase. <i>FEBS Journal</i> , 1990, 187, 183-190.	0.2	233
77	The $\alpha 1$ and $\alpha 2$ 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, 347-351.	1.3	233
78	AMP-activated protein kinase: a key regulator of energy balance with many roles in human disease. <i>Journal of Internal Medicine</i> , 2014, 276, 543-559.	2.7	219
79	The $\alpha 2$ -AMP-Activated Protein Kinase Is a Site 2 Glycogen Synthase Kinase in Skeletal Muscle and Is Responsive to Glucose Loading. <i>Diabetes</i> , 2004, 53, 3074-3081.	0.3	215
80	5'-AMP-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, 46912-46916.	1.6	214
81	AMP-Activated Kinase Regulates Cytoplasmic HuR. <i>Molecular and Cellular Biology</i> , 2002, 22, 3425-3436.	1.1	211
82	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.	1.2	208
83	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, 691-697.	0.2	201
84	AMP-Activated Protein Kinase: Maintaining Energy Homeostasis at the Cellular and Whole-Body Levels. <i>Annual Review of Nutrition</i> , 2014, 34, 31-55.	4.3	196
85	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, 4023-4028.	3.3	195
86	AMPK Promotes p53 Acetylation via Phosphorylation and Inactivation of SIRT1 in Liver Cancer Cells. <i>Cancer Research</i> , 2012, 72, 4394-4404.	0.4	189
87	AMPK: Regulating Energy Balance at the Cellular and Whole Body Levels. <i>Physiology</i> , 2014, 29, 99-107.	1.6	187
88	Regulation of fatty acid synthesis via phosphorylation of acetyl-CoA carboxylase. <i>Progress in Lipid Research</i> , 1989, 28, 117-146.	5.3	180
89	AMPK and autophagy get connected. <i>EMBO Journal</i> , 2011, 30, 634-635.	3.5	180
90	Role of AMP-activated protein kinase in the metabolic syndrome and in heart disease. <i>FEBS Letters</i> , 2008, 582, 81-89.	1.3	179

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91	Phosphorylation by Akt within the ST loop of AMPK- $\beta$ 1 down-regulates its activation in tumour cells. <i>Biochemical Journal</i> , 2014, 459, 275-287.	1.7	176
92	Regulation of spinach SNF1-related (SnRK1) kinases by protein kinases and phosphatases is associated with phosphorylation of the T loop and is regulated by 5'-AMP. <i>Plant Journal</i> , 1999, 19, 433-439.	2.8	172
93	The AMP-activated protein kinase: a multisubstrate regulator of lipid metabolism. <i>Trends in Biochemical Sciences</i> , 1989, 14, 20-23.	3.7	169
94	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, 231-241.	1.7	162
95	Does AMP-activated Protein Kinase Couple Inhibition of Mitochondrial Oxidative Phosphorylation by Hypoxia to Calcium Signaling in O <sub>2</sub> -sensing Cells?. <i>Journal of Biological Chemistry</i> , 2005, 280, 41504-41511.	1.6	160
96	AMP-Activated Protein Kinase. <i>Circulation Research</i> , 2017, 120, 1825-1841.	2.0	157
97	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, 309-323.	2.0	156
98	AMP-activated protein kinase: also regulated by ADP?. <i>Trends in Biochemical Sciences</i> , 2011, 36, 470-477.	3.7	153
99	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-E636.	1.8	150
100	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, 615-623.	0.2	148
101	Phosphorylation control of cardiac acetyl-CoA carboxylase by cAMP-dependent protein kinase and 5'-AMP activated protein kinase. <i>FEBS Journal</i> , 1999, 262, 184-190.	0.2	144
102	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.	1.6	142
103	Purification of the AMP-activated protein kinase on ATP-gamma-Sepharose and analysis of its subunit structure. <i>FEBS Journal</i> , 1994, 223, 351-357.	0.2	140
104	Characterization of AMP-activated protein kinase $\beta$ -subunit isoforms and their role in AMP binding. <i>Biochemical Journal</i> , 2000, 346, 659.	1.7	140
105	Regulation of AMP-activated protein kinase by natural and synthetic activators. <i>Acta Pharmaceutica Sinica B</i> , 2016, 6, 1-19.	5.7	140
106	Differential regulation by AMP and ADP of AMPK complexes containing different $\beta$ subunit isoforms. <i>Biochemical Journal</i> , 2016, 473, 189-199.	1.7	138
107	Fatal Congenital Heart Glycogenosis Caused by a Recurrent Activating R531Q Mutation in the $\beta$ -Subunit of AMP-Activated Protein Kinase (PRKAG2), Not by Phosphorylase Kinase Deficiency. <i>American Journal of Human Genetics</i> , 2005, 76, 1034-1049.	2.6	137
108	Keeping the home fires burning: AMP-activated protein kinase. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170774.	1.5	137

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109	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-E675.	1.8	136
110	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.	0.2	135
111	Stearoyl-CoA desaturase-1 deficiency reduces ceramide synthesis by downregulating serine palmitoyltransferase and increasing $\beta^2$ -oxidation in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 288, E599-E607.	1.8	134
112	5 $\alpha$ -AMP-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-E417.	1.8	133
113	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, 1272-1282.	2.1	131
114	Analysis of the LKB1-STRAD-MO25 complex. <i>Journal of Cell Science</i> , 2004, 117, 6365-6375.	1.2	130
115	Molecular Pathways: Is AMPK a Friend or a Foe in Cancer?. <i>Clinical Cancer Research</i> , 2015, 21, 3836-3840.	3.2	130
116	5 $\alpha$ -AMP-activated protein kinase activity and subunit expression in exercise-trained human skeletal muscle. <i>Journal of Applied Physiology</i> , 2003, 94, 631-641.	1.2	129
117	AMP-activated Protein Kinase Mediates Carotid Body Excitation by Hypoxia. <i>Journal of Biological Chemistry</i> , 2007, 282, 8092-8098.	1.6	126
118	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, 11549-11554.	3.3	126
119	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, 18132-18137.	3.3	125
120	AMPK: a cellular energy sensor primarily regulated by AMP. <i>Biochemical Society Transactions</i> , 2014, 42, 71-75.	1.6	123
121	Bacterial Expression of the Catalytic Domain of 3-Hydroxy-3-Methylglutaryl-CoA Reductase (Isoform) Tj ETQq1 1 0.784314 rgBT /Overexpression of the Catalytic Domain of 3-Hydroxy-3-Methylglutaryl-CoA Reductase Kinase. <i>FEBS Journal</i> , 1995, 233, 506-513.	0.2	120
122	Calmodulin-dependent protein kinase kinase- $\beta^2$ activates AMPK without forming a stable complex: synergistic effects of Ca <sup>2+</sup> and AMP. <i>Biochemical Journal</i> , 2010, 426, 109-118.	1.7	120
123	Increased Phosphorylation of Skeletal Muscle Glycogen Synthase at NH <sub>2</sub> -Terminal Sites During Physiological Hyperinsulinemia in Type 2 Diabetes. <i>Diabetes</i> , 2003, 52, 1393-1402.	0.3	118
124	AMPK and Raptor: Matching Cell Growth to Energy Supply. <i>Molecular Cell</i> , 2008, 30, 263-265.	4.5	115
125	AMP-activated protein kinase: an ultrasensitive system for monitoring cellular energy charge. <i>Biochemical Journal</i> , 1999, 338, 717.	1.7	112
126	Energy sensing by the AMP-activated protein kinase and its effects on muscle metabolism. <i>Proceedings of the Nutrition Society</i> , 2011, 70, 92-99.	0.4	112



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127	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, 167-177.	0.2	110
128	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-E186.	1.8	110
129	Evidence for a protein kinase cascade in higher plants. 3-Hydroxy-3-methylglutaryl-CoA reductase kinase. <i>FEBS Journal</i> , 1992, 209, 923-931.	0.2	105
130	Mechanism of Action of Compound-13: An $\alpha$ -1-Selective Small Molecule Activator of AMPK. <i>Chemistry and Biology</i> , 2014, 21, 866-879.	6.2	103
131	A Potential Role for AMP-Activated Protein Kinase in Meiotic Induction in Mouse Oocytes. <i>Developmental Biology</i> , 2002, 245, 200-212.	0.9	101
132	Hierarchical activation of compartmentalized pools of AMPK depends on severity of nutrient or energy stress. <i>Cell Research</i> , 2019, 29, 460-473.	5.7	101
133	AMP-Activated Protein Kinase: A Master Switch in Glucose and Lipid Metabolism. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2004, 5, 119-125.	2.6	100
134	Neither LKB1 Nor AMPK Are the Direct Targets of Metformin. <i>Gastroenterology</i> , 2006, 131, 973.	0.6	100
135	Oxidative stress activates AMPK in cultured cells primarily by increasing cellular AMP and/or ADP. <i>FEBS Letters</i> , 2014, 588, 3361-3366.	1.3	99
136	The strange case of AMPK and cancer: Dr Jekyll or Mr Hyde? <i>Open Biology</i> , 2019, 9, 190099.	1.5	97
137	5-Aminoimidazole-4-Carboxamide 1- $\beta$ -D-Ribofuranoside Acutely Stimulates Skeletal Muscle 2-Deoxyglucose Uptake in Healthy Men. <i>Diabetes</i> , 2007, 56, 2078-2084.	0.3	93
138	AMPK activation induces mitophagy and promotes mitochondrial fission while activating TBK1 in a PINK1/Parkin independent manner. <i>FASEB Journal</i> , 2020, 34, 6284-6301.	0.2	93
139	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, 4367-4373.	1.6	92
140	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, 325-333.	0.2	91
141	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-E1300.	1.8	90
142	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-E1114.	1.8	90
143	AMP-activated protein kinase mediates VEGF-stimulated endothelial NO production. <i>Biochemical and Biophysical Research Communications</i> , 2007, 354, 1084-1088.	1.0	90
144	Zhou et al. reply. <i>Nature Genetics</i> , 2012, 44, 361-362.	9.4	89

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