

# Bruce Ernest Kemp

## List of Publications by Year in descending order

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375  
papers

41,839  
citations

1981

104  
h-index

3171

192  
g-index

418  
all docs

418  
docs citations

418  
times ranked

36797  
citing authors

#	ARTICLE	IF	CITATIONS
1	AMPK in Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 1025-1078.	13.1	1,423
2	A parathyroid hormone-related protein implicated in malignant hypercalcemia: cloning and expression. <i>Science</i> , 1987, 237, 893-896.	6.0	1,304
3	Protein kinase recognition sequence motifs. <i>Trends in Biochemical Sciences</i> , 1990, 15, 342-346.	3.7	1,036
4	Protein kinase C contains a pseudosubstrate prototope in its regulatory domain. <i>Science</i> , 1987, 238, 1726-1728.	6.0	1,022
5	[3] Protein kinase phosphorylation site sequences and consensus specificity motifs: Tabulations. <i>Methods in Enzymology</i> , 1991, 200, 62-81.	0.4	983
6	The Ca <sup>2+</sup> /Calmodulin-dependent Protein Kinase Kinases Are AMP-activated Protein Kinase Kinases. <i>Journal of Biological Chemistry</i> , 2005, 280, 29060-29066.	1.6	867
7	Metformin, Independent of AMPK, Inhibits mTORC1 in a Rag GTPase-Dependent Manner. <i>Cell Metabolism</i> , 2010, 11, 390-401.	7.2	747
8	AMP-activated protein kinase phosphorylation of endothelial NO synthase. <i>FEBS Letters</i> , 1999, 443, 285-289.	1.3	729
9	Parathyroid hormone-related protein purified from a human lung cancer cell line.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 5048-5052.	3.3	720
10	Interleukin-6 Increases Insulin-Stimulated Glucose Disposal in Humans and Glucose Uptake and Fatty Acid Oxidation In Vitro via AMP-Activated Protein Kinase. <i>Diabetes</i> , 2006, 55, 2688-2697.	0.3	699
11	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
12	The Ancient Drug Salicylate Directly Activates AMP-Activated Protein Kinase. <i>Science</i> , 2012, 336, 918-922.	6.0	649
13	Phosphorylation of Thr <sup>495</sup> Regulates Ca <sup>2+</sup> /Calmodulin-Dependent Endothelial Nitric Oxide Synthase Activity. <i>Circulation Research</i> , 2001, 88, E68-75.	2.0	612
14	Mammalian AMP-activated Protein Kinase Subfamily. <i>Journal of Biological Chemistry</i> , 1996, 271, 611-614.	1.6	569
15	AMPK Is a Direct Adenylate Charge-Regulated Protein Kinase. <i>Science</i> , 2011, 332, 1433-1435.	6.0	499
16	Dealing with energy demand: the AMP-activated protein kinase. <i>Trends in Biochemical Sciences</i> , 1999, 24, 22-25.	3.7	488
17	Coordinated Control of Endothelial Nitric-oxide Synthase Phosphorylation by Protein Kinase C and the cAMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2001, 276, 17625-17628.	1.6	484
18	Regulation of endothelial and myocardial NO synthesis by multi-site eNOS phosphorylation. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 271-279.	0.9	453

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19	The Akt kinase signals directly to endothelial nitric oxide synthase. <i>Current Biology</i> , 1999, 9, 845-S1.	1.8	445
20	AMP-activated protein kinase, super metabolic regulator. <i>Biochemical Society Transactions</i> , 2003, 31, 162-168.	1.6	436
21	Parathyroid hormone-related protein of malignancy: active synthetic fragments. <i>Science</i> , 1987, 238, 1568-1570.	6.0	386
22	AMPK $\beta$ Subunit Targets Metabolic Stress Sensing to Glycogen. <i>Current Biology</i> , 2003, 13, 867-871.	1.8	377
23	Tumor necrosis factor $\alpha$ -induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. <i>Cell Metabolism</i> , 2006, 4, 465-474.	7.2	363
24	High-Density Lipoprotein Modulates Glucose Metabolism in Patients With Type 2 Diabetes Mellitus. <i>Circulation</i> , 2009, 119, 2103-2111.	1.6	363
25	Isolation of phosphorylated peptides and proteins on ion exchange papers. <i>Analytical Biochemistry</i> , 1978, 87, 566-575.	1.1	361
26	AMP-Activated Protein Kinase Regulates GLUT4 Transcription by Phosphorylating Histone Deacetylase 5. <i>Diabetes</i> , 2008, 57, 860-867.	0.3	359
27	AMP-activated protein kinase (AMPK) $\beta$ 1 $\beta$ 2 muscle null mice reveal an essential role for AMPK in maintaining mitochondrial content and glucose uptake during exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16092-16097.	3.3	357
28	Contraction-induced Changes in Acetyl-CoA Carboxylase and 5'-AMP-activated Kinase in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 1997, 272, 13255-13261.	1.6	354
29	Reciprocal Phosphorylation and Regulation of Endothelial Nitric-oxide Synthase in Response to Bradykinin Stimulation. <i>Journal of Biological Chemistry</i> , 2001, 276, 16587-16591.	1.6	331
30	Hypothalamic CaMKK2 Contributes to the Regulation of Energy Balance. <i>Cell Metabolism</i> , 2008, 7, 377-388.	7.2	331
31	A possible linkage between AMP-activated protein kinase (AMPK) and mammalian target of rapamycin (mTOR) signalling pathway. <i>Genes To Cells</i> , 2003, 8, 65-79.	0.5	319
32	Functional Domains of the $\beta$ 1 Catalytic Subunit of the AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 1998, 273, 35347-35354.	1.6	314
33	AMP-Activated Protein Kinase is Highly Expressed in Neurons in the Developing Rat Brain and Promotes Neuronal Survival Following Glucose Deprivation. <i>Journal of Molecular Neuroscience</i> , 2001, 17, 45-58.	1.1	307
34	Effect of Exercise Intensity on Skeletal Muscle AMPK Signaling in Humans. <i>Diabetes</i> , 2003, 52, 2205-2212.	0.3	299
35	Hematopoietic AMPK $\beta$ 1 reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011, 121, 4903-4915.	3.9	291
36	Regulation of 5'-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

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37	AMPK signaling in contracting human skeletal muscle: acetyl-CoA carboxylase and NO synthase phosphorylation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000, 279, E1202-E1206.	1.8	275
38	$\beta$ -Subunit myristoylation is the gatekeeper for initiating metabolic stress sensing by AMP-activated protein kinase (AMPK). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19237-19241.	3.3	267
39	Lack of Adipocyte AMPK Exacerbates Insulin Resistance and Hepatic Steatosis through Brown and Beige Adipose Tissue Function. <i>Cell Metabolism</i> , 2016, 24, 118-129.	7.2	259
40	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. <i>Nature Medicine</i> , 2006, 12, 541-548.	15.2	250
41	Cellular Distribution and Developmental Expression of AMP-Activated Protein Kinase Isoforms in Mouse Central Nervous System. <i>Journal of Neurochemistry</i> , 2001, 72, 1707-1716.	2.1	238
42	Components of a Calmodulin-dependent Protein Kinase Cascade. <i>Journal of Biological Chemistry</i> , 1998, 273, 31880-31889.	1.6	235
43	Synthetic hexapeptide substrates and inhibitors of 3':5'-cyclic AMP-dependent protein kinase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1976, 73, 1038-1042.	3.3	234
44	Regulation of AMP-activated Protein Kinase by Multisite Phosphorylation in Response to Agents That Elevate Cellular cAMP*. <i>Journal of Biological Chemistry</i> , 2006, 281, 36662-36672.	1.6	231
45	Post-translational modifications of the $\beta$ -1 subunit of AMP-activated protein kinase affect enzyme activity and cellular localization. <i>Biochemical Journal</i> , 2001, 354, 275-283.	1.7	226
46	Regulatory and structural motifs of chicken gizzard myosin light chain kinase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 2284-2288.	3.3	223
47	Thienopyridone Drugs Are Selective Activators of AMP-Activated Protein Kinase $\beta$ 1-Containing Complexes. <i>Chemistry and Biology</i> , 2008, 15, 1220-1230.	6.2	221
48	Insights into autoregulation from the crystal structure of twitchin kinase. <i>Nature</i> , 1994, 369, 581-584.	13.7	217
49	Compensatory Phosphorylation and Protein-Protein Interactions Revealed by Loss of Function and Gain of Function Mutants of Multiple Serine Phosphorylation Sites in Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2003, 278, 14841-14849.	1.6	214
50	Crystal structure of human T cell leukemia virus type 1 gp21 ectodomain crystallized as a maltose-binding protein chimera reveals structural evolution of retroviral transmembrane proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 4319-4324.	3.3	207
51	Shear stress stimulates phosphorylation of eNOS at Ser <sup>635</sup> by a protein kinase A-dependent mechanism. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H1819-H1828.	1.5	205
52	Substrate specificity of the cyclic AMP-dependent protein kinase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1975, 72, 3448-3452.	3.3	202
53	Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. <i>Nature Medicine</i> , 2018, 24, 1384-1394.	15.2	200
54	Structural basis of autoregulation of phenylalanine hydroxylase. <i>Nature Structural Biology</i> , 1999, 6, 442-448.	9.7	199

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55	Inhibition of cystic fibrosis transmembrane conductance regulator by novel interaction with the metabolic sensor AMP-activated protein kinase. <i>Journal of Clinical Investigation</i> , 2000, 105, 1711-1721.	3.9	199
56	Regulation of HSL serine phosphorylation in skeletal muscle and adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E500-E508.	1.8	197
57	Active site-directed protein regulation. <i>Nature</i> , 1999, 402, 373-376.	13.7	196
58	AMPK Activation of Muscle Autophagy Prevents Fasting-Induced Hypoglycemia and Myopathy during Aging. <i>Cell Metabolism</i> , 2015, 21, 883-890.	7.2	190
59	Localization of Endothelial Nitric-oxide Synthase Phosphorylated on Serine 1179 and Nitric Oxide in Golgi and Plasma Membrane Defines the Existence of Two Pools of Active Enzyme. <i>Journal of Biological Chemistry</i> , 2002, 277, 4277-4284.	1.6	189
60	Functional analysis of a complementary DNA for the 50-kilodalton subunit of calmodulin kinase II. <i>Science</i> , 1987, 237, 293-297.	6.0	187
61	Identification of Regulatory Sites of Phosphorylation of the Bovine Endothelial Nitric-oxide Synthase at Serine 617 and Serine 635. <i>Journal of Biological Chemistry</i> , 2002, 277, 42344-42351.	1.6	183
62	Structural Basis for Glycogen Recognition by AMP-Activated Protein Kinase. <i>Structure</i> , 2005, 13, 1453-1462.	1.6	175
63	Protein Kinase C $\hat{A}$ Inhibition Attenuates the Progression of Experimental Diabetic Nephropathy in the Presence of Continued Hypertension. <i>Diabetes</i> , 2003, 52, 512-518.	0.3	173
64	Impaired Activation of AMP-Kinase and Fatty Acid Oxidation by Globular Adiponectin in Cultured Human Skeletal Muscle of Obese Type 2 Diabetics. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 3665-3672.	1.8	173
65	Regulation of 5 $\hat{a}$ €²-AMP-activated Protein Kinase Activity by the Noncatalytic $\hat{I}^2$ and $\hat{I}^3$ Subunits. <i>Journal of Biological Chemistry</i> , 1996, 271, 17798-17803.	1.6	171
66	AMPK functions as an adenylate charge-regulated protein kinase. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 125-132.	3.1	167
67	Autoregulation of enzymes by pseudosubstrate prototopes: myosin light chain kinase. <i>Science</i> , 1988, 241, 970-973.	6.0	162
68	A Carboxyl-Terminal Peptide from the Parathyroid Hormone-Related Protein Inhibits Bone Resorption by Osteoclasts*. <i>Endocrinology</i> , 1991, 129, 1762-1768.	1.4	159
69	A Mitotic Cascade of NIMA Family Kinases. <i>Journal of Biological Chemistry</i> , 2003, 278, 34897-34909.	1.6	154
70	AMPK $\hat{I}^1$ Deletion Reduces Appetite, Preventing Obesity and Hepatic Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 115-122.	1.6	154
71	High-density lipoprotein and apolipoprotein AI increase endothelial NO synthase activity by protein association and multisite phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6999-7004.	3.3	152
72	Effects of modulators of myosin light-chain kinase activity in single smooth muscle cells. <i>Nature</i> , 1989, 338, 164-167.	13.7	151

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73	Post-translational modifications of the $\beta$ -1 subunit of AMP-activated protein kinase affect enzyme activity and cellular localization. <i>Biochemical Journal</i> , 2001, 354, 275.	1.7	151
74	Stimulation of AMP-Activated Protein Kinase (AMPK) Is Associated with Enhancement of Glut1-Mediated Glucose Transport. <i>Archives of Biochemistry and Biophysics</i> , 2000, 380, 347-352.	1.4	149
75	Intrasteric regulation of protein kinases and phosphatases. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1991, 1094, 67-76.	1.9	146
76	Substrate and pseudosubstrate interactions with protein kinases: determinants of specificity. <i>Trends in Biochemical Sciences</i> , 1994, 19, 440-444.	3.7	146
77	Whole Body Deletion of AMP-activated Protein Kinase $\beta$ 2 Reduces Muscle AMPK Activity and Exercise Capacity. <i>Journal of Biological Chemistry</i> , 2010, 285, 37198-37209.	1.6	145
78	Intrasteric control of AMPK via the $\alpha$ 1 subunit AMP allosteric regulatory site. <i>Protein Science</i> , 2004, 13, 155-165.	3.1	141
79	Ca <sup>2+</sup> /S100 regulation of giant protein kinases. <i>Nature</i> , 1996, 380, 636-639.	13.7	138
80	Small Molecule Drug A-769662 and AMP Synergistically Activate Naive AMPK Independent of Upstream Kinase Signaling. <i>Chemistry and Biology</i> , 2014, 21, 619-627.	6.2	137
81	Mutagenesis of the pseudosubstrate site of protein kinase C leads to activation. <i>FEBS Journal</i> , 1990, 194, 89-94.	0.2	135
82	Posttranslational Modifications of the $\beta$ -AMP-activated Protein Kinase $\beta$ 1 Subunit. <i>Journal of Biological Chemistry</i> , 1997, 272, 24475-24479.	1.6	135
83	Exercise Increases Nuclear AMPK $\beta$ 2 in Human Skeletal Muscle. <i>Diabetes</i> , 2003, 52, 926-928.	0.3	135
84	Adipocyte triglyceride lipase expression in human obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E958-E964.	1.8	134
85	Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. <i>Biochemical Journal</i> , 2015, 468, 125-132.	1.7	132
86	Evidence for the role of AMPK in regulating PGC- $\alpha$ 1 expression and mitochondrial proteins in mouse epididymal adipose tissue. <i>Obesity</i> , 2014, 22, 730-738.	1.5	129
87	Chrelin-AMPK Signaling Mediates the Neuroprotective Effects of Calorie Restriction in Parkinson's Disease. <i>Journal of Neuroscience</i> , 2016, 36, 3049-3063.	1.7	128
88	Structural basis of the intrasteric regulation of myosin light chain kinases. <i>Science</i> , 1992, 258, 130-135.	6.0	126
89	Associations of Inflammatory and Hemostatic Variables With the Risk of Recurrent Stroke. <i>Stroke</i> , 2005, 36, 2143-2147.	1.0	123
90	Exercise-stimulated interleukin-15 is controlled by AMPK and regulates skin metabolism and aging. <i>Aging Cell</i> , 2015, 14, 625-634.	3.0	123

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91	AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. <i>Journal of Physiology</i> , 2008, 586, 5819-5831.	1.3	121
92	Non-catalytic - and -Subunit Isoforms of the 5'-AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 1996, 271, 8675-8681.	1.6	120
93	Bateman domains and adenosine derivatives form a binding contract. <i>Journal of Clinical Investigation</i> , 2004, 113, 182-184.	3.9	120
94	Phosphorylation of selected serine and threonine residues in myelin basic protein by endogenous and exogenous protein kinases. <i>Nature</i> , 1974, 249, 147-150.	13.7	118
95	Prevention of albuminuria by aminoguanidine or ramipril in streptozotocin-induced diabetic rats is associated with the normalization of glomerular protein kinase C. <i>Diabetes</i> , 2000, 49, 87-93.	0.3	117
96	AMP-activated Protein Kinase $\beta$ Subunit Tethers $\alpha$ and $\gamma$ Subunits via Its C-terminal Sequence (186-270). <i>Journal of Biological Chemistry</i> , 2005, 280, 13395-13400.	1.6	117
97	[10] Design and use of peptide substrates for protein kinases. <i>Methods in Enzymology</i> , 1991, 200, 121-134.	0.4	116
98	SnRK1 from <i>Arabidopsis thaliana</i> is an atypical AMPK. <i>Plant Journal</i> , 2015, 82, 183-192.	2.8	115
99	Expression of the AMP-activated protein kinase $\beta$ 1 and $\beta$ 2 subunits in skeletal muscle. <i>FEBS Letters</i> , 1999, 460, 343-348.	1.3	114
100	AMP-activated protein kinase isoenzyme family: subunit structure and chromosomal location. <i>FEBS Letters</i> , 1997, 409, 452-456.	1.3	112
101	Proteomic-based identification of haptoglobin-1 precursor as a novel circulating biomarker of ovarian cancer. <i>British Journal of Cancer</i> , 2004, 91, 129-140.	2.9	110
102	Endothelium and the vasodilator action of rat calcitonin gene-related peptide (CGRP). <i>British Journal of Pharmacology</i> , 1987, 91, 729-733.	2.7	109
103	Isoform-specific Purification and Substrate Specificity of the 5'-AMP-activated Protein Kinase. <i>Journal of Biological Chemistry</i> , 1996, 271, 28445-28450.	1.6	108
104	Short-term exercise training in humans reduces AMPK signalling during prolonged exercise independent of muscle glycogen. <i>Journal of Physiology</i> , 2005, 568, 665-676.	1.3	108
105	Impaired Cardiac Contractility Response to Hemodynamic Stress in S100A1-Deficient Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 2821-2829.	1.1	107
106	Chutes and Ladders: the search for protein kinases that act on AMPK. <i>Trends in Biochemical Sciences</i> , 2006, 31, 13-16.	3.7	107
107	An AMP-activated protein kinase-stabilizing peptide ameliorates adipose tissue wasting in cancer cachexia in mice. <i>Nature Medicine</i> , 2016, 22, 1120-1130.	15.2	106
108	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 1693-1702.	2.9	105

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109	Mechanism of Action of Compound-13: An $\hat{\pm}$ 1-Selective Small Molecule Activator of AMPK. <i>Chemistry and Biology</i> , 2014, 21, 866-879.	6.2	103
110	Regulation of Channel Gating by AMP-activated Protein Kinase Modulates Cystic Fibrosis Transmembrane Conductance Regulator Activity in Lung Submucosal Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 998-1004.	1.6	102
111	Acute activation and phosphorylation of endothelial nitric oxide synthase by HMG-CoA reductase inhibitors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H560-H566.	1.5	101
112	An activating mutation in the $\hat{\beta}$ 1 subunit of the AMP-activated protein kinase. <i>FEBS Letters</i> , 2001, 500, 163-168.	1.3	100
113	Phosphorylation site sequence of smooth muscle myosin light chain (M r = 20 000). <i>FEBS Letters</i> , 1984, 168, 108-112.	1.3	99
114	AMP-activated protein kinase selectively inhibited by the type II inhibitor SBI-0206965. <i>Journal of Biological Chemistry</i> , 2018, 293, 8874-8885.	1.6	98
115	The Suppressor of Cytokine Signaling 3 Inhibits Leptin Activation of AMP-Kinase in Cultured Skeletal Muscle of Obese Humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 3592-3597.	1.8	97
116	The Protein-tyrosine Phosphatase TCPTP Regulates Epidermal Growth Factor Receptor-mediated and Phosphatidylinositol 3-Kinase-dependent Signaling. <i>Journal of Biological Chemistry</i> , 1999, 274, 27768-27775.	1.6	96
117	AMP-activated Protein Kinase Impairs Endothelial Actin Cytoskeleton Assembly by Phosphorylating Vasodilator-stimulated Phosphoprotein. <i>Journal of Biological Chemistry</i> , 2007, 282, 4601-4612.	1.6	95
118	Examination of $\hat{\epsilon}$ -lipotoxicity $\hat{\epsilon}$ <sup>TM</sup> in skeletal muscle of high $\hat{\epsilon}$ fat fed and <i>&lt;i&gt;ob&lt;/i&gt;/&lt;i&gt;ob&lt;/i&gt;</i> mice. <i>Journal of Physiology</i> , 2009, 587, 1593-1605.	1.3	95
119	[24] Pseudosubstrate-based peptide inhibitors. <i>Methods in Enzymology</i> , 1991, 201, 287-304.	0.4	94
120	Src Kinase Activates Endothelial Nitric-oxide Synthase by Phosphorylating Tyr-83. <i>Journal of Biological Chemistry</i> , 2005, 280, 35943-35952.	1.6	94
121	Phosphorylation of Acetyl-CoA Carboxylase by AMPK Reduces Renal Fibrosis and Is Essential for the Anti-Fibrotic Effect of Metformin. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2326-2336.	3.0	93
122	Recruitment of Thr 319-phosphorylated Ndd1p to the FHA domain of Fkh2p requires Clbkinase activity: a mechanism for CLB cluster gene activation. <i>Genes and Development</i> , 2003, 17, 1789-1802.	2.7	92
123	Ciliary Neurotrophic Factor Suppresses Hypothalamic AMP-Kinase Signaling in Leptin-Resistant Obese Mice. <i>Endocrinology</i> , 2006, 147, 3906-3914.	1.4	92
124	Fatty acids stimulate AMP-activated protein kinase and enhance fatty acid oxidation in L6 myotubes. <i>Journal of Physiology</i> , 2006, 574, 139-147.	1.3	91
125	Role of basic residues in the phosphorylation of synthetic peptides by myosin light chain kinase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983, 80, 7471-7475.	3.3	90
126	High intensity interval training improves liver and adipose tissue insulin sensitivity. <i>Molecular Metabolism</i> , 2015, 4, 903-915.	3.0	90



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127	Regulation of intracellular inhibition of the multifunctional calcium/calmodulin-dependent protein kinase. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 12127-12131.	3.3	87
128	Phosphorylation at the Cyclin-dependent Kinases Site (Thr85) of Parathyroid Hormone-related Protein Negatively Regulates Its Nuclear Localization. Journal of Biological Chemistry, 1999, 274, 18559-18566.	1.6	86
129	Endothelial NO synthase phosphorylated at SER635 produces NO without requiring intracellular calcium increase. Free Radical Biology and Medicine, 2003, 35, 729-741.	1.3	86
130	AMP-activated protein kinase (AMPK) regulates the insulin-induced activation of the nitric oxide synthase in human platelets. Thrombosis and Haemostasis, 2003, 90, 863-871.	1.8	86
131	Multiple Ca <sup>2+</sup> -Calmodulin-dependent Protein Kinase Kinases from Rat Brain. Journal of Biological Chemistry, 1996, 271, 10806-10810.	1.6	85
132	Tissue-Specific Effects of Rosiglitazone and Exercise in the Treatment of Lipid-Induced Insulin Resistance. Diabetes, 2007, 56, 1856-1864.	0.3	85
133	Reduced plasma FFA availability increases net triacylglycerol degradation, but not GPAT or HSL activity, in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E120-E127.	1.8	84
134	Reduced glycogen availability is associated with increased AMPK $\alpha$ 2 activity, nuclear AMPK $\alpha$ 2 protein abundance, and GLUT4 mRNA expression in contracting human skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2006, 31, 302-312.	0.9	83
135	Regulation of the renal-specific Na <sup>+</sup> /K <sup>+</sup> -ATPase co-transporter NKCC2 by AMP-activated protein kinase (AMPK). Biochemical Journal, 2007, 405, 85-93.	1.7	83
136	AMP-Activated Protein Kinase Is Not Down-Regulated in Human Skeletal Muscle of Obese Females. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 4575-4580.	1.8	81
137	Salicylate activates AMPK and synergizes with metformin to reduce the survival of prostate and lung cancer cells <i>in vivo</i> through inhibition of <i>de novo</i> lipogenesis. Biochemical Journal, 2015, 469, 177-187.	1.7	79
138	Effect of exercise intensity and hypoxia on skeletal muscle AMPK signaling and substrate metabolism in humans. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E694-E702.	1.8	78
139	Role of AMP-activated protein kinase in glycogen synthase activity and glucose utilization: insights from patients with McArdle's disease. Journal of Physiology, 2002, 541, 979-989.	1.3	76
140	Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK $\alpha$ 1 isoforms. Nature Metabolism, 2020, 2, 873-881.	5.1	76
141	Catalytic subunits of the porcine and rat AMP-activated protein kinase are members of the SNF1 protein kinase family. Biochimica Et Biophysica Acta - Molecular Cell Research, 1995, 1266, 73-82.	1.9	75
142	Enhanced activation of cellular AMPK by dual-small molecule treatment: AICAR and A769662. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E688-E696.	1.8	75
143	Protein kinase C pseudosubstrate prototope: Structure-function relationships. Cellular Signalling, 1990, 2, 187-190.	1.7	73
144	Human immunodeficiency virus type 1 envelope glycoprotein oligomerization requires the gp41 amphipathic alpha-helical/leucine zipper-like sequence. Journal of Virology, 1997, 71, 2041-2049.	1.5	72

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145	Prediction of Myocardial Infarction by N-Terminal-Pro-B-Type Natriuretic Peptide, C-Reactive Protein, and Renin in Subjects With Cerebrovascular Disease. <i>Circulation</i> , 2005, 112, 110-116.	1.6	71
146	Autologous red cell agglutination assay for HIV-1 antibodies: simplified test with whole blood. <i>Science</i> , 1988, 241, 1352-1354.	6.0	70
147	Structure and function of AMP-activated protein kinase. <i>Acta Physiologica</i> , 2009, 196, 3-14.	1.8	70
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