David Carling

List of Publications by Year
in descending order

177 papers	44,412 citations	4831 87 h-index	5481 169 g-index
180 all docs	180 docs citations	180 times ranked	38919 citing authors

#	Article	IF	Citations
1	Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. Hepatology Communications, 2022, 6, 101-119.	2.0	35
2	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase. Diabetologia, 2022, 65, 997-1011.	2.9	4
3	Indisulam targets RNA splicing and metabolism to serve as a therapeutic strategy for high-risk neuroblastoma. Nature Communications, 2022, 13, 1380.	5.8	32
4	Hepatocyte cholesterol content modulates glucagon receptor signalling. Molecular Metabolism, 2022, 63, 101530.	3.0	4
5	Metformin directly suppresses atherosclerosis in normoglycaemic mice via haematopoietic adenosine monophosphate-activated protein kinase. Cardiovascular Research, 2021, 117, 1295-1308.	1.8	32
6	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. Inflammatory Bowel Diseases, 2021, 27, 914-926.	0.9	32
7	Cell competition acts as a purifying selection to eliminate cells with mitochondrial defects during early mouse development. Nature Metabolism, 2021, 3, 1091-1108.	5.1	33
8	Direct small molecule ADaM-site AMPK activators reveal an AMPKÎ³3-independent mechanism for blood glucose lowering. Molecular Metabolism, 2021, 51, 101259.	3.0	10
9	Receptor Activity-Modifying Protein 2 (RAMP2) alters glucagon receptor trafficking in hepatocytes with functional effects on receptor signalling. Molecular Metabolism, 2021, 53, 101296.	3.0	23
10	Chronic activation of AMP-activated protein kinase leads to early-onset polycystic kidney phenotype. Clinical Science, 2021, 135, 2393-2408.	1.8	8
11	A loss-of-function NUAK2 mutation in humans causes anencephaly due to impaired Hippo-YAP signaling. Journal of Experimental Medicine, 2020, 217, .	4.2	25
12	Hematoma Resolution In Vivo Is Directed by Activating Transcription Factor 1. Circulation Research, 2020, 127, 928-944.	2.0	8
13	Thermogenic adipocytes: lineage, function and therapeutic potential. Biochemical Journal, 2020, 477, 2071-2093.	1.7	18
14	Protein kinase A negatively regulates VEGF-induced AMPK activation by phosphorylating CaMKK2 at serine 495. Biochemical Journal, 2020, 477, 3453-3469.	1.7	10
15	FLIM, FRET and high content analysis. , 2020, , .		0
16	Smarca4 Redirects Binding Of Macrophage Activating Transcription Factor 1 (Atf1) From Genes For Inflammation Resolution To Genes For Erythrocyte Resolution. Atherosclerosis, 2019, 287, e78.	0.4	0
17	AMPK hierarchy: a matter of space and time. Cell Research, 2019, 29, 425-426.	5.7	9
18	AMP-activated protein kinase: the current landscape for drug development. Nature Reviews Drug Discovery, 2019, 18, 527-551.	21.5	425

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19	AMPK activation protects against diet-induced obesity through Ucp1-independent thermogenesis in subcutaneous white adipose tissue. Nature Metabolism, 2019, 1, 340-349.	5.1	65
20	Vertebrate Hematoma Resolution Is Directed By Activating Transcription Factor 1 (Atf1) And Adenosine-Monophosphate-Activated-Protein-Kinase (Ampk). Atherosclerosis, 2019, 287, e246.	0.4	0
21	CAMKK2 Promotes Prostate Cancer Independently of AMPK via Increased Lipogenesis. Cancer Research, 2018, 78, 6747-6761.	0.4	49
22	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. Journal of Biological Chemistry, 2018, 293, 17208-17217.	1.6	207
23	Isoform-specific AMPK association with TBC1D1 is reduced by a mutation associated with severe obesity. Biochemical Journal, 2018, 475, 2969-2983.	1.7	11
24	AMPK signalling in health and disease. Current Opinion in Cell Biology, 2017, 45, 31-37.	2.6	528
25	Liver-Specific Activation of AMPK Prevents Steatosis on a High-Fructose Diet. Cell Reports, 2017, 18, 3043-3051.	2.9	165
26	Effect of different Î³-subunit isoforms on the regulation of AMPK. Biochemical Journal, 2017, 474, 1741-1754.	1.7	41
27	Mammalian Î³2 AMPK regulates intrinsic heart rate. Nature Communications, 2017, 8, 1258.	5.8	43
28	Phosphorylation of AMPK by upstream kinases is required for activity in mammalian cells. Biochemical Journal, 2017, 474, 3059-3073.	1.7	117
29	Imaging of Metabolic Status in 3D Cultures with an Improved AMPK FRET Biosensor for FLIM. Sensors, 2016, 16, 1312.	2.1	11
30	Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836.	7.2	87
31	Three-dimensional fluorescence imaging by stage-scanning oblique plane microscopy (Conference) Tj ETQq1 1 0.784314 rgBT /Overlo		0
32	Mutation of Fnip1 is associated with B-cell deficiency, cardiomyopathy, and elevated AMPK activity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3706-15.	3.3	39
33	The novel choline kinase inhibitor ICL-CCIC-0019 reprograms cellular metabolism and inhibits cancer cell growth. Oncotarget, 2016, 7, 37103-37120.	0.8	32
34	Beyond Energy Homeostasis: the Expanding Role of AMP-Activated Protein Kinase in Regulating Metabolism. Cell Metabolism, 2015, 21, 799-804.	7.2	77
35	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. Cell Reports, 2015, 11, 335-343.	2.9	59
36	A dual role for <scp>AMP</scp>â€activated protein kinase (AMPK) during neonatal hypoxicâ€“ischaemic brain injury in mice. Journal of Neurochemistry, 2015, 133, 242-252.	2.1	53

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37	Glucokinase activity in the arcuate nucleus regulates glucose intake. Journal of Clinical Investigation, 2015, 125, 337-349.	3.9	29
38	Heme and metformin coordinate human and murine macrophage heme oxygenase 1 expression with foam cell resistance partly via adenosine monophosphate kinase and activating transcription factor 1 (AMPK-ATF1). Atherosclerosis, 2014, 232, e4.	0.4	0
39	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. Nature Communications, 2014, 5, 3611.	5.8	1,129
40	The mammalian AMPâ€activated protein kinase complex mediates glucose regulation of gene expression in the yeast Saccharomyces cerevisiae. FEBS Letters, 2014, 588, 2070-2077.	1.3	8
41	Potassium Channel KCNA1 Modulates Oncogene-Induced Senescence and Transformation. Cancer Research, 2013, 73, 5253-5265.	0.4	61
42	5â€²-AMPâ€“Activated Protein Kinaseâ€“Activating Transcription Factor 1 Cascade Modulates Human Monocyteâ€“Derived Macrophages to Atheroprotective Functions in Response to Heme or Metformin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 2470-2480.	1.1	39
43	Structural basis of AMPK regulation by small molecule activators. Nature Communications, 2013, 4, 3017.	5.8	432
44	AMPK, insulin resistance, and the metabolic syndrome. Journal of Clinical Investigation, 2013, 123, 2764-2772.	3.9	672
45	5â€²-AMP-activated protein kinase is inactivated by adrenergic signalling in adult cardiac myocytes. Bioscience Reports, 2012, 32, 197-209.	1.1	11
46	AMP-Activated Protein Kinase Phosphorylates Cardiac Troponin I and Alters Contractility of Murine Ventricular Myocytes. Circulation Research, 2012, 110, 1192-1201.	2.0	70
47	To the Editor. Nature Genetics, 2012, 44, 360-361.	9.4	28
48	AMP-activated protein kinase: new regulation, new roles?. Biochemical Journal, 2012, 445, 11-27.	1.7	341
49	Absence of RIP140 Reveals a Pathway Regulating glut4-Dependent Glucose Uptake in Oxidative Skeletal Muscle through UCP1-Mediated Activation of AMPK. PLoS ONE, 2012, 7, e32520.	1.1	27
50	Fluorescence Lifetime Readouts of Troponin-C-Based Calcium FRET Sensors: A Quantitative Comparison of CFP and mTFP1 as Donor Fluorophores. PLoS ONE, 2012, 7, e49200.	1.1	24
51	ADP Regulates SNF1, the Saccharomyces cerevisiae Homolog of AMP-Activated Protein Kinase. Cell Metabolism, 2011, 14, 707-714.	7.2	146
52	AMP-activated protein kinase (AMPK) is a tau kinase, activated in response to amyloid Î²-peptide exposure. Biochemical Journal, 2011, 434, 503-512.	1.7	155
53	LKB1 is required for hepatic bile acid transport and canalicular membrane integrity in mice. Biochemical Journal, 2011, 434, 49-60.	1.7	70
54	Structure of mammalian AMPK and its regulation by ADP. Nature, 2011, 472, 230-233.	13.7	761

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55	AMP-activated protein kinase: also regulated by ADP?. Trends in Biochemical Sciences, 2011, 36, 470-477.	3.7	153
56	AMP-activated protein kinase: nature's energy sensor. Nature Chemical Biology, 2011, 7, 512-518.	3.9	350
57	Deletion of Lkb1 in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. Diabetes, 2011, 60, 735-745.	0.3	48
58	LKB1 Is an Essential Regulator of Spermatozoa Release during Spermiation in the Mammalian Testis. PLoS ONE, 2011, 6, e28306.	1.1	30
59	Loss of AMP-activated protein kinase Î±2 subunit in mouse Î²-cells impairs glucose-stimulated insulin secretion and inhibits their sensitivity to hypoglycaemia. Biochemical Journal, 2010, 429, 323-333.	1.7	60
60	AMPK-independent down-regulation of cFLIP and sensitization to TRAIL-induced apoptosis by AMPK activators. Biochemical Pharmacology, 2010, 79, 853-863.	2.0	23
61	Regulation of ploidy and senescence by the AMPK-related kinase NUAK1. EMBO Journal, 2010, 29, 376-386.	3.5	88
62	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. Nature Medicine, 2010, 16, 1001-1008.	15.2	581
63	Activation of AMP-activated Protein Kinase by Vascular Endothelial Growth Factor Mediates Endothelial Angiogenesis Independently of Nitric-oxide Synthase. Journal of Biological Chemistry, 2010, 285, 10638-10652.	1.6	74
64	Signaling Kinase AMPK Activates Stress-Promoted Transcription via Histone H2B Phosphorylation. Science, 2010, 329, 1201-1205.	6.0	320
65	Characterization of an Alternative Splice Variant of LKB1. Journal of Biological Chemistry, 2009, 284, 67-76.	1.6	31
66	Taking the Stress out of Melanoma. Cancer Cell, 2009, 15, 163-164.	7.7	12
67	The regulation and function of mammalian AMPKâ€related kinases. Acta Physiologica, 2009, 196, 15-26.	1.8	165
68	Branching out on AMPK Regulation. Cell Metabolism, 2009, 9, 7-8.	7.2	6
69	Determination of AMP-activated protein kinase phosphorylation sites in recombinant protein expressed using the pET28a vector: A cautionary tale. Protein Expression and Purification, 2009, 66, 181-184.	0.6	3
70	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. Science, 2009, 326, 140-144.	6.0	1,009
71	Hypothalamic Fatty Acid Metabolism Mediates the Orexigenic Action of Ghrelin. Cell Metabolism, 2008, 7, 389-399.	7.2	417
72	Investigating the Regulation of Brain-specific Kinases 1 and 2 by Phosphorylation. Journal of Biological Chemistry, 2008, 283, 14946-14954.	1.6	47

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73	Adenosine 5â€²-Monophosphate-Activated Protein Kinase Promotes Macrophage Polarization to an Anti-Inflammatory Functional Phenotype. Journal of Immunology, 2008, 181, 8633-8641.	0.4	640
74	Muscarinic Receptor Activation of AMP-activated Protein Kinase Inhibits Orexigenic Neuropeptide mRNA Expression. Journal of Biological Chemistry, 2008, 283, 17116-17122.	1.6	30
75	Defining the Mechanism of Activation of AMP-activated Protein Kinase by the Small Molecule A-769662, a Member of the Thienopyridone Family. Journal of Biological Chemistry, 2007, 282, 32539-32548.	1.6	297
76	Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses. American Journal of Veterinary Research, 2007, 68, 1079-1084.	0.3	10
77	Adiponectin-Induced Endothelial Nitric Oxide Synthase Activation and Nitric Oxide Production Are Mediated by APPL1 in Endothelial Cells. Diabetes, 2007, 56, 1387-1394.	0.3	290
78	Low Utilization of Circulating Glucose after Food Withdrawal in Snell Dwarf Mice. Journal of Biological Chemistry, 2007, 282, 35069-35077.	1.6	41
79	A Conserved Sequence Immediately N-terminal to the Bateman Domains in AMP-activated Protein Kinase Î³ Subunits Is Required for the Interaction with the Î² Subunits. Journal of Biological Chemistry, 2007, 282, 16117-16125.	1.6	25
80	Investigating the mechanism for AMP activation of the AMP-activated protein kinase cascade. Biochemical Journal, 2007, 403, 139-148.	1.7	581
81	The Role of the AMP-Activated Protein Kinase in the Regulation of Energy Homeostasis. Novartis Foundation Symposium, 2007, 286, 72-85.	1.2	39
82	Phospho-Dependent Functional Modulation of GABAB Receptors by the Metabolic Sensor AMP-Dependent Protein Kinase. Neuron, 2007, 53, 233-247.	3.8	167
83	S6 Kinase Deletion Suppresses Muscle Growth Adaptations to Nutrient Availability by Activating AMP Kinase. Cell Metabolism, 2007, 5, 476-487.	7.2	163
84	Structural basis for AMP binding to mammalian AMP-activated protein kinase. Nature, 2007, 449, 496-500.	13.7	498
85	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. Journal of Clinical Investigation, 2007, 117, 2325-2336.	3.9	445
86	AMPâ€activated protein kinase and the regulation of energy metabolism. FASEB Journal, 2007, 21, A206.	0.2	0
87	Tumor necrosis factor Î±-induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. Cell Metabolism, 2006, 4, 465-474.	7.2	363
88	LKB1: a sweet side to Peutzâ€“Jeghers syndrome?. Trends in Molecular Medicine, 2006, 12, 144-147.	3.5	24
89	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. Nature Medicine, 2006, 12, 541-548.	15.2	250
90	Activation of AMPK Î±- and Î³-isoform complexes in the intact ischemic rat heart. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1927-H1934.	1.5	59

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91	Thrombin Activates AMP-Activated Protein Kinase in Endothelial Cells via a Pathway Involving Ca 2+ /Calmodulin-Dependent Protein Kinase Kinase Î². Molecular and Cellular Biology, 2006, 26, 5933-5945.	1.1	194
92	Characterization of the role of Î³2 R531G mutation in AMP-activated protein kinase in cardiac hypertrophy and Wolff-Parkinson-White syndrome. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1942-H1951.	1.5	74
93	Insulin Antagonizes Ischemia-induced Thr172 Phosphorylation of AMP-activated Protein Kinase Î±-Subunits in Heart via Hierarchical Phosphorylation of Ser485/491. Journal of Biological Chemistry, 2006, 281, 5335-5340.	1.6	308
94	AMP-activated protein kinase and the metabolic syndrome. Biochemical Society Transactions, 2005, 33, 362-366.	1.6	82
95	Transgenic Mouse Model of Ventricular Preexcitation and Atrioventricular Reentrant Tachycardia Induced by an AMP-Activated Protein Kinase Loss-of-Function Mutation Responsible for Wolff-Parkinson-White Syndrome. Circulation, 2005, 111, 21-29.	1.6	139
96	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. Biochemical and Biophysical Research Communications, 2005, 329, 719-725.	1.0	30
97	AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. Cell Metabolism, 2005, 1, 15-25.	7.2	2,541
98	Ca2+/calmodulin-dependent protein kinase kinase-Î² acts upstream of AMP-activated protein kinase in mammalian cells. Cell Metabolism, 2005, 2, 21-33.	7.2	1,202
99	AMP-activated protein kinase: balancing the scales. Biochimie, 2005, 87, 87-91.	1.3	184
100	Neuregulin Signaling on Glucose Transport in Muscle Cells. Journal of Biological Chemistry, 2004, 279, 12260-12268.	1.6	55
101	Thr2446 Is a Novel Mammalian Target of Rapamycin (mTOR) Phosphorylation Site Regulated by Nutrient Status. Journal of Biological Chemistry, 2004, 279, 15719-15722.	1.6	276
102	AMP-activated Protein Kinase Plays a Role in the Control of Food Intake. Journal of Biological Chemistry, 2004, 279, 12005-12008.	1.6	661
103	Covalent activation of heart AMP-activated protein kinase in response to physiological concentrations of long-chain fatty acids. FEBS Journal, 2004, 271, 2215-2224.	0.2	88
104	Cellular energy sensor balances the scales. Nature Medicine, 2004, 10, 681-682.	15.2	8
105	The AMP-activated protein kinase cascade â€“ a unifying system for energy control. Trends in Biochemical Sciences, 2004, 29, 18-24.	3.7	1,015
106	AMPK. Current Biology, 2004, 14, R220.	1.8	33
107	LKB1 Is the Upstream Kinase in the AMP-Activated Protein Kinase Cascade. Current Biology, 2003, 13, 2004-2008.	1.8	1,456
108	Metabolic and mitogenic signal transduction in human skeletal muscle after intense cycling exercise. Journal of Physiology, 2003, 546, 327-335.	1.3	128

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109	Mammalian AMP-activated protein kinase: functional, heterotrimeric complexes by co-expression of subunits in Escherichia coli. Protein Expression and Purification, 2003, 30, 230-237.	0.6	126
110	Regulation of Glycogen Synthase by Glucose and Glycogen: A Possible Role for AMP-Activated Protein Kinase. Diabetes, 2003, 52, 9-15.	0.3	88
111	Identification of Phosphorylation Sites in AMP-activated Protein Kinase (AMPK) for Upstream AMPK Kinases and Study of Their Roles by Site-directed Mutagenesis. Journal of Biological Chemistry, 2003, 278, 28434-28442.	1.6	204
112	Increased AMP:ATP Ratio and AMP-activated Protein Kinase Activity during Cellular Senescence Linked to Reduced HuR Function. Journal of Biological Chemistry, 2003, 278, 27016-27023.	1.6	221
113	Activation of yeast Snf1 and mammalian AMP-activated protein kinase by upstream kinases. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8839-8843.	3.3	518
114	Malonyl-CoA and AMP-activated protein kinase (AMPK): possible links between insulin resistance in muscle and early endothelial cell damage in diabetes. Biochemical Society Transactions, 2003, 31, 202-206.	1.6	126
115	Bypassing the glucose/fatty acid cycle: AMP-activated protein kinase. Biochemical Society Transactions, 2003, 31, 1157-1160.	1.6	28
116	The AMP-activated protein kinase Î±2 catalytic subunit controls whole-body insulin sensitivity. Journal of Clinical Investigation, 2003, 111, 91-98.	3.9	444
117	Functional Analysis of Mutations in the Î³2 Subunit of AMP-activated Protein Kinase Associated with Cardiac Hypertrophy and Wolff-Parkinson-White Syndrome. Journal of Biological Chemistry, 2002, 277, 51017-51024.	1.6	103
118	Hyperglycemia-Induced Apoptosis in Human Umbilical Vein Endothelial Cells: Inhibition by the AMP-Activated Protein Kinase Activation. Diabetes, 2002, 51, 159-167.	0.3	319
119	Isoform-Specific Regulation of 5' AMP-Activated Protein Kinase in Skeletal Muscle From Obese Zucker (fa/fa) Rats in Response to Contraction. Diabetes, 2002, 51, 2703-2708.	0.3	52
120	AMP-Activated Kinase Regulates Cytoplasmic HuR. Molecular and Cellular Biology, 2002, 22, 3425-3436.	1.1	211
121	Characterization of the role of the AMP-activated protein kinase in the stimulation of glucose transport in skeletal muscle cells. Biochemical Journal, 2002, 363, 167.	1.7	100
122	Expression and regulation of the AMP-activated protein kinaseâ€“SNF1 (sucrose non-fermenting 1) kinase complexes in yeast and mammalian cells: studies using chimaeric catalytic subunits. Biochemical Journal, 2002, 365, 629-638.	1.7	22
123	Characterization of the role of the AMP-activated protein kinase in the stimulation of glucose transport in skeletal muscle cells. Biochemical Journal, 2002, 363, 167-174.	1.7	157
124	Protein kinase inhibitors block the stimulation of the AMP-activated protein kinase by 5-amino-4-imidazolecarboxamide riboside. FEBS Letters, 2002, 531, 189-192.	1.3	71
125	Evidence for involvement of protein kinase C in glucose induction of genes and derepression of. FEMS Yeast Research, 2002, 2, 93-102.	1.1	0
126	The Anti-diabetic Drugs Rosiglitazone and Metformin Stimulate AMP-activated Protein Kinase through Distinct Signaling Pathways. Journal of Biological Chemistry, 2002, 277, 25226-25232.	1.6	895

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127	The AMP-Activated Protein Kinase Is Involved in the Regulation of Ketone Body Production by Astrocytes. Journal of Neurochemistry, 2002, 73, 1674-1682.	2.1	110
128	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. Nature, 2002, 415, 339-343.	13.7	1,823
129	Adiponectin stimulates glucose utilization and fatty-acid oxidation by activating AMP-activated protein kinase. Nature Medicine, 2002, 8, 1288-1295.	15.2	3,692
130	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). Journal of Cell Science, 2002, 115, 2433-2442.	1.2	238
131	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). Journal of Cell Science, 2002, 115, 2433-42.	1.2	208
132	The regulation of AMP-activated protein kinase by phosphorylation. Biochemical Journal, 2000, 345, 437.	1.7	140
133	Characterization of AMP-activated protein kinase Î³-subunit isoforms and their role in AMP binding. Biochemical Journal, 2000, 346, 659.	1.7	140
134	The regulation of AMP-activated protein kinase by phosphorylation. Biochemical Journal, 2000, 345, 437-443.	1.7	521
135	Phosphorylation and activation of heart PFK-2 by AMPK has a role in the stimulation of glycolysis during ischaemia. Current Biology, 2000, 10, 1247-1255.	1.8	707
136	Characterization of AMP-activated protein kinase Î³-subunit isoforms and their role in AMP binding. Biochemical Journal, 2000, 346, 659-669.	1.7	534
137	Activation of glucose transport by AMP-activated protein kinase via stimulation of nitric oxide synthase. Diabetes, 2000, 49, 1978-1985.	0.3	157
138	Characterization of the Role of AMP-Activated Protein Kinase in the Regulation of Glucose-Activated Gene Expression Using Constitutively Active and Dominant Negative Forms of the Kinase. Molecular and Cellular Biology, 2000, 20, 6704-6711.	1.1	376
139	The SNF1 kinase complex fromSaccharomyces cerevisiaephosphorylates the transcriptional repressor protein Mig1p in vitro at four sites within or near regulatory domain 1. FEBS Letters, 1999, 453, 219-223.	1.3	92
140	Dual regulation of the AMP-activated protein kinase provides a novel mechanism for the control of creatine kinase in skeletal muscle. EMBO Journal, 1998, 17, 1688-1699.	3.5	288
141	Evidence that the AMP-activated protein kinase stimulates rat liver carnitine palmitoyltransferase I by phosphorylating cytoskeletal components. FEBS Letters, 1998, 439, 317-320.	1.3	40
142	THE AMP-ACTIVATED/SNF1 PROTEIN KINASE SUBFAMILY: Metabolic Sensors of the Eukaryotic Cell?. Annual Review of Biochemistry, 1998, 67, 821-855.	5.0	1,380
143	AMP-activated Protein Kinase Inhibits the Glucose-activated Expression of Fatty Acid Synthase Gene in Rat Hepatocytes. Journal of Biological Chemistry, 1998, 273, 14767-14771.	1.6	217
144	Identification of a Novel AMP-activated Protein Kinase Î² Subunit Isoform That Is Highly Expressed in Skeletal Muscle. Journal of Biological Chemistry, 1998, 273, 12443-12450.	1.6	206

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145	AMP-activated protein kinase: greater AMP dependence, and preferential nuclear localization, of complexes containing the Î±2 isoform. Biochemical Journal, 1998, 334, 177-187.	1.7	410
146	Molecular characterization of the AMP-activated protein kinase and its role in cellular metabolism. Biochemical Society Transactions, 1997, 25, 1224-1228.	1.6	10
147	139 IDENTIFICATION OF A NOVEL AMPKÎ² SUBUNIT THAT IS HIGHLY EXPRESSED IN SKELETAL MUSCLE. Biochemical Society Transactions, 1997, 25, S667-S667.	1.6	3
148	140 Interaction of AMP-activated protein kinase subunits in the heterotrimeric complex and with their yeast homologues. Biochemical Society Transactions, 1997, 25, S668-S668.	1.6	2
149	Identification of Raf-1 Ser621 kinase activity from NIH 3T3 cells as AMP-activated protein kinase. FEBS Letters, 1997, 403, 254-258.	1.3	59
150	The AMP-Activated Protein Kinase. Fuel Gauge of the Mammalian Cell?. FEBS Journal, 1997, 246, 259-273.	0.2	1,154
151	The Î±1 and Î±2 isoforms of the AMP-activated protein kinase have similar activities in rat liver but exhibit differences in substrate specificity in vitro. FEBS Letters, 1996, 397, 347-351.	1.3	233
152	Biochemical characterization and deletion analysis of recombinant human protein phosphatase 2CÎ±. Biochemical Journal, 1996, 320, 801-806.	1.7	80
153	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. Journal of Biological Chemistry, 1996, 271, 27879-27887.	1.6	1,076
154	Characterization of AMP-activated Protein Kinase Î² and Î³ Subunits. Journal of Biological Chemistry, 1996, 271, 10282-10290.	1.6	205
155	The AMP-activated Protein Kinase Gene is Highly Expressed in Rat Skeletal Muscle. Alternative Splicing and Tissue Distribution of the mRNA. FEBS Journal, 1995, 228, 236-243.	0.2	3
156	5â€²-AMP Activates the AMP-activated Protein Kinase Cascade, and Ca2+/Calmodulin Activates the Calmodulin-dependent Protein Kinase I Cascade, via Three Independent Mechanisms. Journal of Biological Chemistry, 1995, 270, 27186-27191.	1.6	385
157	The AMP-activated Protein Kinase Gene is Highly Expressed in Rat Skeletal Muscle. Alternative Splicing and Tissue Distribution of the mRNA. FEBS Journal, 1995, 228, 236-243.	0.2	54
158	AMPK. , 1995, , 171-173.		0
159	Roles of the Snf1/Rkin1/AMP-activated protein kinase family in the response to environmental and nutritional stress. Seminars in Cell Biology, 1994, 5, 409-416.	3.5	92
160	Purification of the AMP-activated protein kinase on ATP-gamma-Sepharose and analysis of its subunit structure. FEBS Journal, 1994, 223, 351-357.	0.2	140
161	Characterization of 5â€²-AMP-Activated Protein Kinase in Human Liver Using Specific Peptide Substrates and the Effects of 5â€²-AMP Analogues on Enzyme Activity. Biochemical and Biophysical Research Communications, 1994, 200, 1551-1556.	1.0	79
162	Inhibition of lipolysis and lipogenesis in isolated rat adipocytes with AICAR, a cell-permeable activator of AMP-activated protein kinase. FEBS Letters, 1994, 353, 33-36.	1.3	428

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163	Molecular cloning, expression and chromosomal localisation of human AMP-activated protein kinase. FEBS Letters, 1994, 356, 117-121.	1.3	36
164	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. FEBS Journal, 1992, 203, 615-623.	0.2	148
165	[29] Adenosine monophosphate-activated protein kinase: Hydroxymethylglutaryl-CoA reductase kinase. Methods in Enzymology, 1991, 200, 362-371.	0.4	10
166	Phosphorylation of bovine hormone-sensitive lipase by the AMP-activated protein kinase. A possible antilipolytic mechanism. FEBS Journal, 1989, 179, 249-254.	0.2	249
167	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. FEBS Journal, 1989, 186, 123-128.	0.2	402
168	Purification and characterization of the AMP-activated protein kinase. Copurification of acetyl-CoA carboxylase kinase and 3-hydroxy-3-methylglutaryl-CoA reductase kinase activities. FEBS Journal, 1989, 186, 129-136.	0.2	369
169	Effects of the tumour promoter okadaic acid on intracellular protein phosphorylation and metabolism. Nature, 1989, 337, 78-81.	13.7	856
170	The AMP-activated protein kinase: a multisubstrate regulator of lipid metabolism. Trends in Biochemical Sciences, 1989, 14, 20-23.	3.7	169
171	The substrate and sequence specificity of the AMP-activated protein kinase. Phosphorylation of glycogen synthase and phosphorylase kinase. Biochimica Et Biophysica Acta - Molecular Cell Research, 1989, 1012, 81-86.	1.9	265
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