David Carling

List of Publications by Year
in descending order

177 papers	44,412 citations	4146 87 h-index	4774 169 g-index
180 all docs	180 docs citations	180 times ranked	35735 citing authors

#	Article	IF	Citations
1	Adiponectin stimulates glucose utilization and fatty-acid oxidation by activating AMP-activated protein kinase. Nature Medicine, 2002, 8, 1288-1295.	30.7	3,692
2	AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. Cell Metabolism, 2005, 1, 15-25.	16.2	2,541
3	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. Nature, 2002, 415, 339-343.	27.8	1,823
4	LKB1 Is the Upstream Kinase in the AMP-Activated Protein Kinase Cascade. Current Biology, 2003, 13, 2004-2008.	3.9	1,456
5	THE AMP-ACTIVATED/SNF1 PROTEIN KINASE SUBFAMILY: Metabolic Sensors of the Eukaryotic Cell?. Annual Review of Biochemistry, 1998, 67, 821-855.	11.1	1,380
6	Ca2+/calmodulin-dependent protein kinase kinase-Î² acts upstream of AMP-activated protein kinase in mammalian cells. Cell Metabolism, 2005, 2, 21-33.	16.2	1,202
7	The AMP-Activated Protein Kinase. Fuel Gauge of the Mammalian Cell?. FEBS Journal, 1997, 246, 259-273.	0.2	1,154
8	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. Nature Communications, 2014, 5, 3611.	12.8	1,129
9	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.	3.4	1,076
10	The AMP-activated protein kinase cascade â€“ a unifying system for energy control. Trends in Biochemical Sciences, 2004, 29, 18-24.	7.5	1,015
11	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. Science, 2009, 326, 140-144.	12.6	1,009
12	The Anti-diabetic Drugs Rosiglitazone and Metformin Stimulate AMP-activated Protein Kinase through Distinct Signaling Pathways. Journal of Biological Chemistry, 2002, 277, 25226-25232.	3.4	895
13	Effects of the tumour promoter okadaic acid on intracellular protein phosphorylation and metabolism. Nature, 1989, 337, 78-81.	27.8	856
14	Structure of mammalian AMPK and its regulation by ADP. Nature, 2011, 472, 230-233.	27.8	761
15	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.	3.9	707
16	AMPK, insulin resistance, and the metabolic syndrome. Journal of Clinical Investigation, 2013, 123, 2764-2772.	8.2	672
17	AMP-activated Protein Kinase Plays a Role in the Control of Food Intake. Journal of Biological Chemistry, 2004, 279, 12005-12008.	3.4	661
18	Adenosine 5â€²-Monophosphate-Activated Protein Kinase Promotes Macrophage Polarization to an Anti-Inflammatory Functional Phenotype. Journal of Immunology, 2008, 181, 8633-8641.	0.8	640

#	Article	IF	Citations
19	Investigating the mechanism for AMP activation of the AMP-activated protein kinase cascade. Biochemical Journal, 2007, 403, 139-148.	3.7	581
20	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. Nature Medicine, 2010, 16, 1001-1008.	30.7	581
21	Characterization of AMP-activated protein kinase Î³-subunit isoforms and their role in AMP binding. Biochemical Journal, 2000, 346, 659-669.	3.7	534
22	AMPK signalling in health and disease. Current Opinion in Cell Biology, 2017, 45, 31-37.	5.4	528
23	The regulation of AMP-activated protein kinase by phosphorylation. Biochemical Journal, 2000, 345, 437-443.	3.7	521
24	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.	7.1	518
25	Structural basis for AMP binding to mammalian AMP-activated protein kinase. Nature, 2007, 449, 496-500.	27.8	498
26	A common bicyclic protein kinase cascade inactivates the regulatory enzymes of fatty acid and cholesterol biosynthesis. FEBS Letters, 1987, 223, 217-222.	2.8	491
27	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. Journal of Clinical Investigation, 2007, 117, 2325-2336.	8.2	445
28	The AMP-activated protein kinase Î±2 catalytic subunit controls whole-body insulin sensitivity. Journal of Clinical Investigation, 2003, 111, 91-98.	8.2	444
29	Structural basis of AMPK regulation by small molecule activators. Nature Communications, 2013, 4, 3017.	12.8	432
30	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.	2.8	428
31	AMP-activated protein kinase: the current landscape for drug development. Nature Reviews Drug Discovery, 2019, 18, 527-551.	46.4	425
32	Hypothalamic Fatty Acid Metabolism Mediates the Orexigenic Action of Ghrelin. Cell Metabolism, 2008, 7, 389-399.	16.2	417
33	AMP-activated protein kinase: greater AMP dependence, and preferential nuclear localization, of complexes containing the Î±2 isoform. Biochemical Journal, 1998, 334, 177-187.	3.7	410
34	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
35	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.	3.4	385
36	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.	2.3	376

#	Article	IF	Citations
37	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
38	Tumor necrosis factor Î±-induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. Cell Metabolism, 2006, 4, 465-474.	16.2	363
39	AMP-activated protein kinase: nature's energy sensor. Nature Chemical Biology, 2011, 7, 512-518.	8.0	350
40	AMP-activated protein kinase: new regulation, new roles?. Biochemical Journal, 2012, 445, 11-27.	3.7	341
41	Signaling Kinase AMPK Activates Stress-Promoted Transcription via Histone H2B Phosphorylation. Science, 2010, 329, 1201-1205.	12.6	320
42	Hyperglycemia-Induced Apoptosis in Human Umbilical Vein Endothelial Cells: Inhibition by the AMP-Activated Protein Kinase Activation. Diabetes, 2002, 51, 159-167.	0.6	319
43	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.	3.4	308
44	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.	3.4	297
45	Adiponectin-Induced Endothelial Nitric Oxide Synthase Activation and Nitric Oxide Production Are Mediated by APPL1 in Endothelial Cells. Diabetes, 2007, 56, 1387-1394.	0.6	290
46	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.	7.8	288
47	Thr2446 Is a Novel Mammalian Target of Rapamycin (mTOR) Phosphorylation Site Regulated by Nutrient Status. Journal of Biological Chemistry, 2004, 279, 15719-15722.	3.4	276
48	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.	4.1	265
49	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. Nature Medicine, 2006, 12, 541-548.	30.7	250
50	Identification by amino acid sequencing of three major regulatory phosphorylation sites on rat acetyl-CoA carboxylase. FEBS Journal, 1988, 175, 331-338.	0.2	249
51	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
52	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). Journal of Cell Science, 2002, 115, 2433-2442.	2.0	238
53	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.	2.8	233
54	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.	3.4	221

#	Article	IF	Citations
55	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.	3.4	217
56	AMP-Activated Kinase Regulates Cytoplasmic HuR. Molecular and Cellular Biology, 2002, 22, 3425-3436.	2.3	211
57	Activation of GLUT1 by metabolic and osmotic stress: potential involvement of AMP-activated protein kinase (AMPK). Journal of Cell Science, 2002, 115, 2433-42.	2.0	208
58	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. Journal of Biological Chemistry, 2018, 293, 17208-17217.	3.4	207
59	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.	3.4	206
60	Characterization of AMP-activated Protein Kinase Î² and Î³ Subunits. Journal of Biological Chemistry, 1996, 271, 10282-10290.	3.4	205
61	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.	3.4	204
62	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.	2.3	194
63	AMP-activated protein kinase: balancing the scales. Biochimie, 2005, 87, 87-91.	2.6	184
64	The AMP-activated protein kinase: a multisubstrate regulator of lipid metabolism. Trends in Biochemical Sciences, 1989, 14, 20-23.	7.5	169
65	Phospho-Dependent Functional Modulation of GABAB Receptors by the Metabolic Sensor AMP-Dependent Protein Kinase. Neuron, 2007, 53, 233-247.	8.1	167
66	The regulation and function of mammalian AMPKâ€related kinases. Acta Physiologica, 2009, 196, 15-26.	3.8	165
67	Liver-Specific Activation of AMPK Prevents Steatosis on a High-Fructose Diet. Cell Reports, 2017, 18, 3043-3051.	6.4	165
68	S6 Kinase Deletion Suppresses Muscle Growth Adaptations to Nutrient Availability by Activating AMP Kinase. Cell Metabolism, 2007, 5, 476-487.	16.2	163
69	Activation of glucose transport by AMP-activated protein kinase via stimulation of nitric oxide synthase. Diabetes, 2000, 49, 1978-1985.	0.6	157
70	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.	3.7	157
71	AMP-activated protein kinase (AMPK) is a tau kinase, activated in response to amyloid Î²-peptide exposure. Biochemical Journal, 2011, 434, 503-512.	3.7	155
72	AMP-activated protein kinase: also regulated by ADP?. Trends in Biochemical Sciences, 2011, 36, 470-477.	7.5	153

#	Article	IF	Citations
73	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
74	ADP Regulates SNF1, the Saccharomyces cerevisiae Homolog of AMP-Activated Protein Kinase. Cell Metabolism, 2011, 14, 707-714.	16.2	146
75	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
76	The regulation of AMP-activated protein kinase by phosphorylation. Biochemical Journal, 2000, 345, 437.	3.7	140
77	Characterization of AMP-activated protein kinase Î³-subunit isoforms and their role in AMP binding. Biochemical Journal, 2000, 346, 659.	3.7	140
78	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
79	Metabolic and mitogenic signal transduction in human skeletal muscle after intense cycling exercise. Journal of Physiology, 2003, 546, 327-335.	2.9	128
80	Mammalian AMP-activated protein kinase: functional, heterotrimeric complexes by co-expression of subunits in Escherichia coli. Protein Expression and Purification, 2003, 30, 230-237.	1.3	126
81	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.	3.4	126
82	Phosphorylation of AMPK by upstream kinases is required for activity in mammalian cells. Biochemical Journal, 2017, 474, 3059-3073.	3.7	117
83	The AMP-Activated Protein Kinase Is Involved in the Regulation of Ketone Body Production by Astrocytes. Journal of Neurochemistry, 2002, 73, 1674-1682.	3.9	110
84	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.	3.4	103
85	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.	3.7	100
86	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.	3.4	92
87	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.	2.8	92
88	Regulation of Glycogen Synthase by Glucose and Glycogen: A Possible Role for AMP-Activated Protein Kinase. Diabetes, 2003, 52, 9-15.	0.6	88
89	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
90	Regulation of ploidy and senescence by the AMPK-related kinase NUAK1. EMBO Journal, 2010, 29, 376-386.	7.8	88

#	Article	IF	Citations
91	Chronic Activation of Î³2 AMPK Induces Obesity and Reduces Î² Cell Function. Cell Metabolism, 2016, 23, 821-836.	16.2	87
92	AMP-activated protein kinase and the metabolic syndrome. Biochemical Society Transactions, 2005, 33, 362-366.	3.4	82
93	Biochemical characterization and deletion analysis of recombinant human protein phosphatase 2CÎ±. Biochemical Journal, 1996, 320, 801-806.	3.7	80
94	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.	2.1	79
95	Beyond Energy Homeostasis: the Expanding Role of AMP-Activated Protein Kinase in Regulating Metabolism. Cell Metabolism, 2015, 21, 799-804.	16.2	77
96	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.	3.2	74
97	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.	3.4	74
98	Protein kinase inhibitors block the stimulation of the AMP-activated protein kinase by 5-amino-4-imidazolecarboxamide riboside. FEBS Letters, 2002, 531, 189-192.	2.8	71
99	LKB1 is required for hepatic bile acid transport and canalicular membrane integrity in mice. Biochemical Journal, 2011, 434, 49-60.	3.7	70
100	AMP-Activated Protein Kinase Phosphorylates Cardiac Troponin I and Alters Contractility of Murine Ventricular Myocytes. Circulation Research, 2012, 110, 1192-1201.	4.5	70
101	AMPK activation protects against diet-induced obesity through Ucp1-independent thermogenesis in subcutaneous white adipose tissue. Nature Metabolism, 2019, 1, 340-349.	11.9	65
102	Potassium Channel KCNA1 Modulates Oncogene-Induced Senescence and Transformation. Cancer Research, 2013, 73, 5253-5265.	0.9	61
103	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.	3.7	60
104	Identification of Raf-1 Ser621 kinase activity from NIH 3T3 cells as AMP-activated protein kinase. FEBS Letters, 1997, 403, 254-258.	2.8	59
105	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.	3.2	59
106	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. Cell Reports, 2015, 11, 335-343.	6.4	59
107	Neuregulin Signaling on Glucose Transport in Muscle Cells. Journal of Biological Chemistry, 2004, 279, 12260-12268.	3.4	55
108	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

#	Article	IF	Citations
109	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.	3.9	53
110	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.	0.6	52
111	CAMKK2 Promotes Prostate Cancer Independently of AMPK via Increased Lipogenesis. Cancer Research, 2018, 78, 6747-6761.	0.9	49
112	Deletion of Lkb1 in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. Diabetes, 2011, 60, 735-745.	0.6	48
113	Investigating the Regulation of Brain-specific Kinases 1 and 2 by Phosphorylation. Journal of Biological Chemistry, 2008, 283, 14946-14954.	3.4	47
114	Mammalian Î³2 AMPK regulates intrinsic heart rate. Nature Communications, 2017, 8, 1258.	12.8	43
115	Negative interactions between phosphorylation of acetyl-CoA carboxylase by the cyclic AMP-dependent and AMP-activated protein kinases. FEBS Letters, 1988, 235, 144-148.	2.8	41
116	Low Utilization of Circulating Glucose after Food Withdrawal in Snell Dwarf Mice. Journal of Biological Chemistry, 2007, 282, 35069-35077.	3.4	41
117	Effect of different Î³-subunit isoforms on the regulation of AMPK. Biochemical Journal, 2017, 474, 1741-1754.	3.7	41
118	Evidence that the AMP-activated protein kinase stimulates rat liver carnitine palmitoyltransferase I by phosphorylating cytoskeletal components. FEBS Letters, 1998, 439, 317-320.	2.8	40
119	The Role of the AMP-Activated Protein Kinase in the Regulation of Energy Homeostasis. Novartis Foundation Symposium, 2007, 286, 72-85.	1.1	39
120	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.	2.4	39
121	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.	7.1	39
122	Molecular cloning, expression and chromosomal localisation of human AMP-activated protein kinase. FEBS Letters, 1994, 356, 117-121.	2.8	36
123	Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. Hepatology Communications, 2022, 6, 101-119.	4.3	35
124	AMPK. Current Biology, 2004, 14, R220.	3.9	33
125	Cell competition acts as a purifying selection to eliminate cells with mitochondrial defects during early mouse development. Nature Metabolism, 2021, 3, 1091-1108.	11.9	33
126	Metformin directly suppresses atherosclerosis in normoglycaemic mice via haematopoietic adenosine monophosphate-activated protein kinase. Cardiovascular Research, 2021, 117, 1295-1308.	3.8	32

#	Article	IF	Citations
127	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. Inflammatory Bowel Diseases, 2021, 27, 914-926.	1.9	32
128	The novel choline kinase inhibitor ICL-CCIC-0019 reprograms cellular metabolism and inhibits cancer cell growth. Oncotarget, 2016, 7, 37103-37120.	1.8	32
129	Indisulam targets RNA splicing and metabolism to serve as a therapeutic strategy for high-risk neuroblastoma. Nature Communications, 2022, 13, 1380.	12.8	32
130	Characterization of an Alternative Splice Variant of LKB1. Journal of Biological Chemistry, 2009, 284, 67-76.	3.4	31
131	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. Biochemical and Biophysical Research Communications, 2005, 329, 719-725.	2.1	30
132	Muscarinic Receptor Activation of AMP-activated Protein Kinase Inhibits Orexigenic Neuropeptide mRNA Expression. Journal of Biological Chemistry, 2008, 283, 17116-17122.	3.4	30
133	LKB1 Is an Essential Regulator of Spermatozoa Release during Spermiation in the Mammalian Testis. PLoS ONE, 2011, 6, e28306.	2.5	30
134	Glucokinase activity in the arcuate nucleus regulates glucose intake. Journal of Clinical Investigation, 2015, 125, 337-349.	8.2	29
135	Bypassing the glucose/fatty acid cycle: AMP-activated protein kinase. Biochemical Society Transactions, 2003, 31, 1157-1160.	3.4	28
136	To the Editor. Nature Genetics, 2012, 44, 360-361.	21.4	28
137	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.	2.5	27
138	Characterization of the phosphorylation of rat mammary ATP-citrate lyase and acetyl-CoA carboxylase by Ca2+ and calmodulin-dependent multiprotein kinase and Ca2+ and phospholipid-dependent protein kinase. FEBS Journal, 1986, 157, 553-561.	0.2	25
139	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.	3.4	25
140	A loss-of-function NUAK2 mutation in humans causes anencephaly due to impaired Hippo-YAP signaling. Journal of Experimental Medicine, 2020, 217, .	8.5	25
141	LKB1: a sweet side to Peutzâ€"Jeghers syndrome?. Trends in Molecular Medicine, 2006, 12, 144-147.	6.7	24
142	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.	2.5	24
143	AMPK-independent down-regulation of cFLIP and sensitization to TRAIL-induced apoptosis by AMPK activators. Biochemical Pharmacology, 2010, 79, 853-863.	4.4	23
144	Receptor Activity-Modifying Protein 2 (RAMP2) alters glucagon receptor trafficking in hepatocytes with functional effects on receptor signalling. Molecular Metabolism, 2021, 53, 101296.	6.5	23

#	Article	IF	Citations
145	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.	3.7	22
146	Thermogenic adipocytes: lineage, function and therapeutic potential. Biochemical Journal, 2020, 477, 2071-2093.	3.7	18
147	The role of phosphorylation/dephosphorylation of acetyl-CoA carboxylase in the regulation of mammalian fatty acid biosynthesis. Biochemical Society Transactions, 1986, 14, 559-562.	3.4	13
148	Isolation of a cyclic-AMP-independent protein kinase from rat liver and its effect on the enzymic activity of acetyl-CoA carboxylase. Biochemical Society Transactions, 1986, 14, 1076-1077.	3.4	12
149	Taking the Stress out of Melanoma. Cancer Cell, 2009, 15, 163-164.	16.8	12
150	5â€²-AMP-activated protein kinase is inactivated by adrenergic signalling in adult cardiac myocytes. Bioscience Reports, 2012, 32, 197-209.	2.4	11
151	Imaging of Metabolic Status in 3D Cultures with an Improved AMPK FRET Biosensor for FLIM. Sensors, 2016, 16, 1312.	3.8	11
152	Isoform-specific AMPK association with TBC1D1 is reduced by a mutation associated with severe obesity. Biochemical Journal, 2018, 475, 2969-2983.	3.7	11
153	[29] Adenosine monophosphate-activated protein kinase: Hydroxymethylglutaryl-CoA reductase kinase. Methods in Enzymology, 1991, 200, 362-371.	1.0	10
154	Molecular characterization of the AMP-activated protein kinase and its role in cellular metabolism. Biochemical Society Transactions, 1997, 25, 1224-1228.	3.4	10
155	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.	0.6	10
156	Direct small molecule ADaM-site AMPK activators reveal an AMPKÎ³3-independent mechanism for blood glucose lowering. Molecular Metabolism, 2021, 51, 101259.	6.5	10
157	Protein kinase A negatively regulates VEGF-induced AMPK activation by phosphorylating CaMKK2 at serine 495. Biochemical Journal, 2020, 477, 3453-3469.	3.7	10
158	AMPK hierarchy: a matter of space and time. Cell Research, 2019, 29, 425-426.	12.0	9
159	Cellular energy sensor balances the scales. Nature Medicine, 2004, 10, 681-682.	30.7	8
160	The mammalian AMPâ€activated protein kinase complex mediates glucose regulation of gene expression in the yeast Saccharomyces cerevisiae. FEBS Letters, 2014, 588, 2070-2077.	2.8	8
161	Hematoma Resolution In Vivo Is Directed by Activating Transcription Factor 1. Circulation Research, 2020, 127, 928-944.	4.5	8
162	Chronic activation of AMP-activated protein kinase leads to early-onset polycystic kidney phenotype. Clinical Science, 2021, 135, 2393-2408.	4.3	8

#	Article	IF	Citations
163	Branching out on AMPK Regulation. Cell Metabolism, 2009, 9, 7-8.	16.2	6
164	Opposing effects on regulated insulin secretion of acute vs chronic stimulation of AMP-activated protein kinase. Diabetologia, 2022, 65, 997-1011.	6.3	4
165	Hepatocyte cholesterol content modulates glucagon receptor signalling. Molecular Metabolism, 2022, 63, 101530.	6.5	4
166	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
167	139 IDENTIFICATION OF A NOVEL AMPKÎ² SUBUNIT THAT IS HIGHLY EXPRESSED IN SKELETAL MUSCLE. Biochemical Society Transactions, 1997, 25, S667-S667.	3.4	3
168	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.	1.3	3
169	140 Interaction of AMP-activated protein kinase subunits in the heterotrimeric complex and with their yeast homologues. Biochemical Society Transactions, 1997, 25, S668-S668.	3.4	2
170	Evidence for involvement of protein kinase C in glucose induction of genes and derepression of. FEMS Yeast Research, 2002, 2, 93-102.	2.3	0
171	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.	0.8	0
172	Three-dimensional fluorescence imaging by stage-scanning oblique plane microscopy (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		0
173	Smarca4 Redirects Binding Of Macrophage Activating Transcription Factor 1 (Atf1) From Genes For Inflammation Resolution To Genes For Erythrocyte Resolution. Atherosclerosis, 2019, 287, e78.	0.8	0
174	Vertebrate Hematoma Resolution Is Directed By Activating Transcription Factor 1 (Atf1) And Adenosine-Monophosphate-Activated-Protein-Kinase (Ampk). Atherosclerosis, 2019, 287, e246.	0.8	0
175	AMPâ€activated protein kinase and the regulation of energy metabolism. FASEB Journal, 2007, 21, A206.	0.5	0
176	AMPK. , 1995, , 171-173.		0
177	FLIM, FRET and high content analysis. , 2020, , .		0