

David Carling

List of Publications by Year in descending order

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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	Adiponectin stimulates glucose utilization and fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature Medicine</i> , 2002, 8, 1288-1295.	15.2	3,692
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	Leptin stimulates fatty-acid oxidation by activating AMP-activated protein kinase. <i>Nature</i> , 2002, 415, 339-343.	13.7	1,823
4	LKB1 Is the Upstream Kinase in the AMP-Activated Protein Kinase Cascade. <i>Current Biology</i> , 2003, 13, 2004-2008.	1.8	1,456
5	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
6	Ca ²⁺ /calmodulin-dependent protein kinase kinase- β acts upstream of AMP-activated protein kinase in mammalian cells. <i>Cell Metabolism</i> , 2005, 2, 21-33.	7.2	1,202
7	The AMP-Activated Protein Kinase. Fuel Gauge of the Mammalian Cell?. <i>FEBS Journal</i> , 1997, 246, 259-273.	0.2	1,154
8	The short-chain fatty acid acetate reduces appetite via a central homeostatic mechanism. <i>Nature Communications</i> , 2014, 5, 3611.	5.8	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. <i>Journal of Biological Chemistry</i> , 1996, 271, 27879-27887.	1.6	1,076
10	The AMP-activated protein kinase cascade – a unifying system for energy control. <i>Trends in Biochemical Sciences</i> , 2004, 29, 18-24.	3.7	1,015
11	Ribosomal Protein S6 Kinase 1 Signaling Regulates Mammalian Life Span. <i>Science</i> , 2009, 326, 140-144.	6.0	1,009
12	The Anti-diabetic Drugs Rosiglitazone and Metformin Stimulate AMP-activated Protein Kinase through Distinct Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2002, 277, 25226-25232.	1.6	895
13	Effects of the tumour promoter okadaic acid on intracellular protein phosphorylation and metabolism. <i>Nature</i> , 1989, 337, 78-81.	13.7	856
14	Structure of mammalian AMPK and its regulation by ADP. <i>Nature</i> , 2011, 472, 230-233.	13.7	761
15	Phosphorylation and activation of heart PFK-2 by AMPK has a role in the stimulation of glycolysis during ischaemia. <i>Current Biology</i> , 2000, 10, 1247-1255.	1.8	707
16	AMPK, insulin resistance, and the metabolic syndrome. <i>Journal of Clinical Investigation</i> , 2013, 123, 2764-2772.	3.9	672
17	AMP-activated Protein Kinase Plays a Role in the Control of Food Intake. <i>Journal of Biological Chemistry</i> , 2004, 279, 12005-12008.	1.6	661
18	Adenosine 5'-Monophosphate-Activated Protein Kinase Promotes Macrophage Polarization to an Anti-Inflammatory Functional Phenotype. <i>Journal of Immunology</i> , 2008, 181, 8633-8641.	0.4	640

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19	Investigating the mechanism for AMP activation of the AMP-activated protein kinase cascade. <i>Biochemical Journal</i> , 2007, 403, 139-148.	1.7	581
20	Hypothalamic AMPK and fatty acid metabolism mediate thyroid regulation of energy balance. <i>Nature Medicine</i> , 2010, 16, 1001-1008.	15.2	581
21	Characterization of AMP-activated protein kinase $\hat{1}$ ³ -subunit isoforms and their role in AMP binding. <i>Biochemical Journal</i> , 2000, 346, 659-669.	1.7	534
22	AMPK signalling in health and disease. <i>Current Opinion in Cell Biology</i> , 2017, 45, 31-37.	2.6	528
23	The regulation of AMP-activated protein kinase by phosphorylation. <i>Biochemical Journal</i> , 2000, 345, 437-443.	1.7	521
24	Activation of yeast Snf1 and mammalian AMP-activated protein kinase by upstream kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 8839-8843.	3.3	518
25	Structural basis for AMP binding to mammalian AMP-activated protein kinase. <i>Nature</i> , 2007, 449, 496-500.	13.7	498
26	A common bicyclic protein kinase cascade inactivates the regulatory enzymes of fatty acid and cholesterol biosynthesis. <i>FEBS Letters</i> , 1987, 223, 217-222.	1.3	491
27	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. <i>Journal of Clinical Investigation</i> , 2007, 117, 2325-2336.	3.9	445
28	The AMP-activated protein kinase $\hat{1}$ ² catalytic subunit controls whole-body insulin sensitivity. <i>Journal of Clinical Investigation</i> , 2003, 111, 91-98.	3.9	444
29	Structural basis of AMPK regulation by small molecule activators. <i>Nature Communications</i> , 2013, 4, 3017.	5.8	432
30	Inhibition of lipolysis and lipogenesis in isolated rat adipocytes with AICAR, a cell-permeable activator of AMP-activated protein kinase. <i>FEBS Letters</i> , 1994, 353, 33-36.	1.3	428
31	AMP-activated protein kinase: the current landscape for drug development. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 527-551.	21.5	425
32	Hypothalamic Fatty Acid Metabolism Mediates the Orexigenic Action of Ghrelin. <i>Cell Metabolism</i> , 2008, 7, 389-399.	7.2	417
33	AMP-activated protein kinase: greater AMP dependence, and preferential nuclear localization, of complexes containing the $\hat{1}$ ² isoform. <i>Biochemical Journal</i> , 1998, 334, 177-187.	1.7	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. <i>FEBS Journal</i> , 1989, 186, 123-128.	0.2	402
35	5 $\hat{2}$ -AMP Activates the AMP-activated Protein Kinase Cascade, and Ca ²⁺ /Calmodulin Activates the Calmodulin-dependent Protein Kinase I Cascade, via Three Independent Mechanisms. <i>Journal of Biological Chemistry</i> , 1995, 270, 27186-27191.	1.6	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. <i>Molecular and Cellular Biology</i> , 2000, 20, 6704-6711.	1.1	376

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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. <i>FEBS Journal</i> , 1989, 186, 129-136.	0.2	369
38	Tumor necrosis factor α -induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. <i>Cell Metabolism</i> , 2006, 4, 465-474.	7.2	363
39	AMP-activated protein kinase: nature's energy sensor. <i>Nature Chemical Biology</i> , 2011, 7, 512-518.	3.9	350
40	AMP-activated protein kinase: new regulation, new roles?. <i>Biochemical Journal</i> , 2012, 445, 11-27.	1.7	341
41	Signaling Kinase AMPK Activates Stress-Promoted Transcription via Histone H2B Phosphorylation. <i>Science</i> , 2010, 329, 1201-1205.	6.0	320
42	Hyperglycemia-Induced Apoptosis in Human Umbilical Vein Endothelial Cells: Inhibition by the AMP-Activated Protein Kinase Activation. <i>Diabetes</i> , 2002, 51, 159-167.	0.3	319
43	Insulin Antagonizes Ischemia-induced Thr172 Phosphorylation of AMP-activated Protein Kinase α -Subunits in Heart via Hierarchical Phosphorylation of Ser485/491. <i>Journal of Biological Chemistry</i> , 2006, 281, 5335-5340.	1.6	308
44	Defining the Mechanism of Activation of AMP-activated Protein Kinase by the Small Molecule A-769662, a Member of the Thienopyridone Family. <i>Journal of Biological Chemistry</i> , 2007, 282, 32539-32548.	1.6	297
45	Adiponectin-Induced Endothelial Nitric Oxide Synthase Activation and Nitric Oxide Production Are Mediated by APPL1 in Endothelial Cells. <i>Diabetes</i> , 2007, 56, 1387-1394.	0.3	290
46	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
47	Thr2446 Is a Novel Mammalian Target of Rapamycin (mTOR) Phosphorylation Site Regulated by Nutrient Status. <i>Journal of Biological Chemistry</i> , 2004, 279, 15719-15722.	1.6	276
48	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
49	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. <i>Nature Medicine</i> , 2006, 12, 541-548.	15.2	250
50	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
51	Phosphorylation of bovine hormone-sensitive lipase by the AMP-activated protein kinase. A possible antilipolytic mechanism. <i>FEBS Journal</i> , 1989, 179, 249-254.	0.2	249
52	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
53	The α 1 and α 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
54	Increased AMP:ATP Ratio and AMP-activated Protein Kinase Activity during Cellular Senescence Linked to Reduced HuR Function. <i>Journal of Biological Chemistry</i> , 2003, 278, 27016-27023.	1.6	221

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55	AMP-activated Protein Kinase Inhibits the Glucose-activated Expression of Fatty Acid Synthase Gene in Rat Hepatocytes. <i>Journal of Biological Chemistry</i> , 1998, 273, 14767-14771.	1.6	217
56	AMP-Activated Kinase Regulates Cytoplasmic HuR. <i>Molecular and Cellular Biology</i> , 2002, 22, 3425-3436.	1.1	211
57	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
58	Mitochondria-derived ROS activate AMP-activated protein kinase (AMPK) indirectly. <i>Journal of Biological Chemistry</i> , 2018, 293, 17208-17217.	1.6	207
59	Identification of a Novel AMP-activated Protein Kinase β^2 Subunit Isoform That Is Highly Expressed in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 1998, 273, 12443-12450.	1.6	206
60	Characterization of AMP-activated Protein Kinase β^2 and β^3 Subunits. <i>Journal of Biological Chemistry</i> , 1996, 271, 10282-10290.	1.6	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. <i>Journal of Biological Chemistry</i> , 2003, 278, 28434-28442.	1.6	204
62	Thrombin Activates AMP-Activated Protein Kinase in Endothelial Cells via a Pathway Involving Ca ²⁺ /Calmodulin-Dependent Protein Kinase Kinase β^2 . <i>Molecular and Cellular Biology</i> , 2006, 26, 5933-5945.	1.1	194
63	AMP-activated protein kinase: balancing the scales. <i>Biochimie</i> , 2005, 87, 87-91.	1.3	184
64	The AMP-activated protein kinase: a multisubstrate regulator of lipid metabolism. <i>Trends in Biochemical Sciences</i> , 1989, 14, 20-23.	3.7	169
65	Phospho-Dependent Functional Modulation of GABAB Receptors by the Metabolic Sensor AMP-Dependent Protein Kinase. <i>Neuron</i> , 2007, 53, 233-247.	3.8	167
66	The regulation and function of mammalian AMPK-related kinases. <i>Acta Physiologica</i> , 2009, 196, 15-26.	1.8	165
67	Liver-Specific Activation of AMPK Prevents Steatosis on a High-Fructose Diet. <i>Cell Reports</i> , 2017, 18, 3043-3051.	2.9	165
68	S6 Kinase Deletion Suppresses Muscle Growth Adaptations to Nutrient Availability by Activating AMP Kinase. <i>Cell Metabolism</i> , 2007, 5, 476-487.	7.2	163
69	Activation of glucose transport by AMP-activated protein kinase via stimulation of nitric oxide synthase. <i>Diabetes</i> , 2000, 49, 1978-1985.	0.3	157
70	Characterization of the role of the AMP-activated protein kinase in the stimulation of glucose transport in skeletal muscle cells. <i>Biochemical Journal</i> , 2002, 363, 167-174.	1.7	157
71	AMP-activated protein kinase (AMPK) is a tau kinase, activated in response to amyloid β^2 -peptide exposure. <i>Biochemical Journal</i> , 2011, 434, 503-512.	1.7	155
72	AMP-activated protein kinase: also regulated by ADP?. <i>Trends in Biochemical Sciences</i> , 2011, 36, 470-477.	3.7	153

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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 <i>Saccharomyces cerevisiae</i> Homolog of AMP-Activated Protein Kinase. Cell Metabolism, 2011, 14, 707-714.	7.2	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.	1.7	140
77	Characterization of AMP-activated protein kinase $\hat{\beta}$ -subunit isoforms and their role in AMP binding. Biochemical Journal, 2000, 346, 659.	1.7	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.	1.3	128
80	Mammalian AMP-activated protein kinase: functional, heterotrimeric complexes by co-expression of subunits in <i>Escherichia coli</i> . Protein Expression and Purification, 2003, 30, 230-237.	0.6	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.	1.6	126
82	Phosphorylation of AMPK by upstream kinases is required for activity in mammalian cells. Biochemical Journal, 2017, 474, 3059-3073.	1.7	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.	2.1	110
84	Functional Analysis of Mutations in the $\hat{\beta}$ 2 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
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.	1.7	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.	3.5	92
87	The SNF1 kinase complex from <i>Saccharomyces cerevisiae</i> phosphorylates 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
88	Regulation of Glycogen Synthase by Glucose and Glycogen: A Possible Role for AMP-Activated Protein Kinase. Diabetes, 2003, 52, 9-15.	0.3	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 NUA1. EMBO Journal, 2010, 29, 376-386.	3.5	88

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91	Chronic Activation of $\hat{\beta}^2$ AMPK Induces Obesity and Reduces $\hat{\beta}^2$ Cell Function. <i>Cell Metabolism</i> , 2016, 23, 821-836.	7.2	87
92	AMP-activated protein kinase and the metabolic syndrome. <i>Biochemical Society Transactions</i> , 2005, 33, 362-366.	1.6	82
93	Biochemical characterization and deletion analysis of recombinant human protein phosphatase 2C $\hat{\pm}$. <i>Biochemical Journal</i> , 1996, 320, 801-806.	1.7	80
94	Characterization of 5 $\hat{\alpha}$ ϵ^2 -AMP-Activated Protein Kinase in Human Liver Using Specific Peptide Substrates and the Effects of 5 $\hat{\alpha}$ ϵ^2 -AMP Analogues on Enzyme Activity. <i>Biochemical and Biophysical Research Communications</i> , 1994, 200, 1551-1556.	1.0	79
95	Beyond Energy Homeostasis: the Expanding Role of AMP-Activated Protein Kinase in Regulating Metabolism. <i>Cell Metabolism</i> , 2015, 21, 799-804.	7.2	77
96	Characterization of the role of $\hat{\beta}^2$ R531G mutation in AMP-activated protein kinase in cardiac hypertrophy and Wolff-Parkinson-White syndrome. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H1942-H1951.	1.5	74
97	Activation of AMP-activated Protein Kinase by Vascular Endothelial Growth Factor Mediates Endothelial Angiogenesis Independently of Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2010, 285, 10638-10652.	1.6	74
98	Protein kinase inhibitors block the stimulation of the AMP-activated protein kinase by 5-amino-4-imidazolecarboxamide riboside. <i>FEBS Letters</i> , 2002, 531, 189-192.	1.3	71
99	LKB1 is required for hepatic bile acid transport and canalicular membrane integrity in mice. <i>Biochemical Journal</i> , 2011, 434, 49-60.	1.7	70
100	AMP-Activated Protein Kinase Phosphorylates Cardiac Troponin I and Alters Contractility of Murine Ventricular Myocytes. <i>Circulation Research</i> , 2012, 110, 1192-1201.	2.0	70
101	AMPK activation protects against diet-induced obesity through Ucp1-independent thermogenesis in subcutaneous white adipose tissue. <i>Nature Metabolism</i> , 2019, 1, 340-349.	5.1	65
102	Potassium Channel KCNA1 Modulates Oncogene-Induced Senescence and Transformation. <i>Cancer Research</i> , 2013, 73, 5253-5265.	0.4	61
103	Loss of AMP-activated protein kinase $\hat{\beta}^2$ subunit in mouse $\hat{\beta}^2$ -cells impairs glucose-stimulated insulin secretion and inhibits their sensitivity to hypoglycaemia. <i>Biochemical Journal</i> , 2010, 429, 323-333.	1.7	60
104	Identification of Raf-1 Ser621 kinase activity from NIH 3T3 cells as AMP-activated protein kinase. <i>FEBS Letters</i> , 1997, 403, 254-258.	1.3	59
105	Activation of AMPK $\hat{\beta}^2$ - and $\hat{\beta}^3$ -isoform complexes in the intact ischemic rat heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1927-H1934.	1.5	59
106	Ribosomal S6K1 in POMC and AgRP Neurons Regulates Glucose Homeostasis but Not Feeding Behavior in Mice. <i>Cell Reports</i> , 2015, 11, 335-343.	2.9	59
107	Neuregulin Signaling on Glucose Transport in Muscle Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 12260-12268.	1.6	55
108	The AMP-activated Protein Kinase Gene is Highly Expressed in Rat Skeletal Muscle. Alternative Splicing and Tissue Distribution of the mRNA. <i>FEBS Journal</i> , 1995, 228, 236-243.	0.2	54

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109	A dual role for AMP-activated protein kinase (AMPK) during neonatal hypoxic-ischaemic brain injury in mice. <i>Journal of Neurochemistry</i> , 2015, 133, 242-252.	2.1	53
110	Isoform-Specific Regulation of 5' AMP-Activated Protein Kinase in Skeletal Muscle From Obese Zucker (fa/fa) Rats in Response to Contraction. <i>Diabetes</i> , 2002, 51, 2703-2708.	0.3	52
111	CAMKK2 Promotes Prostate Cancer Independently of AMPK via Increased Lipogenesis. <i>Cancer Research</i> , 2018, 78, 6747-6761.	0.4	49
112	Deletion of <i>Lkb1</i> in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. <i>Diabetes</i> , 2011, 60, 735-745.	0.3	48
113	Investigating the Regulation of Brain-specific Kinases 1 and 2 by Phosphorylation. <i>Journal of Biological Chemistry</i> , 2008, 283, 14946-14954.	1.6	47
114	Mammalian β 2 AMPK regulates intrinsic heart rate. <i>Nature Communications</i> , 2017, 8, 1258.	5.8	43
115	Negative interactions between phosphorylation of acetyl-CoA carboxylase by the cyclic AMP-dependent and AMP-activated protein kinases. <i>FEBS Letters</i> , 1988, 235, 144-148.	1.3	41
116	Low Utilization of Circulating Glucose after Food Withdrawal in Snell Dwarf Mice. <i>Journal of Biological Chemistry</i> , 2007, 282, 35069-35077.	1.6	41
117	Effect of different β -subunit isoforms on the regulation of AMPK. <i>Biochemical Journal</i> , 2017, 474, 1741-1754.	1.7	41
118	Evidence that the AMP-activated protein kinase stimulates rat liver carnitine palmitoyltransferase I by phosphorylating cytoskeletal components. <i>FEBS Letters</i> , 1998, 439, 317-320.	1.3	40
119	The Role of the AMP-Activated Protein Kinase in the Regulation of Energy Homeostasis. <i>Novartis Foundation Symposium</i> , 2007, 286, 72-85.	1.2	39
120	AMP-Activated Protein Kinase-Activating Transcription Factor 1 Cascade Modulates Human Monocyte-Derived Macrophages to Atheroprotective Functions in Response to Heme or Metformin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 2470-2480.	1.1	39
121	Mutation of <i>Fnip1</i> is associated with B-cell deficiency, cardiomyopathy, and elevated AMPK activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3706-15.	3.3	39
122	Molecular cloning, expression and chromosomal localisation of human AMP-activated protein kinase. <i>FEBS Letters</i> , 1994, 356, 117-121.	1.3	36
123	Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. <i>Hepatology Communications</i> , 2022, 6, 101-119.	2.0	35
124	AMPK. <i>Current Biology</i> , 2004, 14, R220.	1.8	33
125	Cell competition acts as a purifying selection to eliminate cells with mitochondrial defects during early mouse development. <i>Nature Metabolism</i> , 2021, 3, 1091-1108.	5.1	33
126	Metformin directly suppresses atherosclerosis in normoglycaemic mice via haematopoietic adenosine monophosphate-activated protein kinase. <i>Cardiovascular Research</i> , 2021, 117, 1295-1308.	1.8	32

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127	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 914-926.	0.9	32
128	The novel choline kinase inhibitor ICL-CCIC-0019 reprograms cellular metabolism and inhibits cancer cell growth. <i>Oncotarget</i> , 2016, 7, 37103-37120.	0.8	32
129	Indisulam targets RNA splicing and metabolism to serve as a therapeutic strategy for high-risk neuroblastoma. <i>Nature Communications</i> , 2022, 13, 1380.	5.8	32
130	Characterization of an Alternative Splice Variant of LKB1. <i>Journal of Biological Chemistry</i> , 2009, 284, 67-76.	1.6	31
131	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 719-725.	1.0	30
132	Muscarinic Receptor Activation of AMP-activated Protein Kinase Inhibits Orexigenic Neuropeptide mRNA Expression. <i>Journal of Biological Chemistry</i> , 2008, 283, 17116-17122.	1.6	30
133	LKB1 Is an Essential Regulator of Spermatozoa Release during Spermiation in the Mammalian Testis. <i>PLoS ONE</i> , 2011, 6, e28306.	1.1	30
134	Glucokinase activity in the arcuate nucleus regulates glucose intake. <i>Journal of Clinical Investigation</i> , 2015, 125, 337-349.	3.9	29
135	Bypassing the glucose/fatty acid cycle: AMP-activated protein kinase. <i>Biochemical Society Transactions</i> , 2003, 31, 1157-1160.	1.6	28
136	To the Editor. <i>Nature Genetics</i> , 2012, 44, 360-361.	9.4	28
137	Absence of RIP140 Reveals a Pathway Regulating glut4-Dependent Glucose Uptake in Oxidative Skeletal Muscle through UCP1-Mediated Activation of AMPK. <i>PLoS ONE</i> , 2012, 7, e32520.	1.1	27
138	Characterization of the phosphorylation of rat mammary ATP-citrate lyase and acetyl-CoA carboxylase by Ca ²⁺ and calmodulin-dependent multiprotein kinase and Ca ²⁺ and phospholipid-dependent protein kinase. <i>FEBS Journal</i> , 1986, 157, 553-561.	0.2	25
139	A Conserved Sequence Immediately N-terminal to the Bateman Domains in AMP-activated Protein Kinase $\hat{1}^3$ Subunits Is Required for the Interaction with the $\hat{1}^2$ Subunits. <i>Journal of Biological Chemistry</i> , 2007, 282, 16117-16125.	1.6	25
140	A loss-of-function NUA2 mutation in humans causes anencephaly due to impaired Hippo-YAP signaling. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	25
141	LKB1: a sweet side to Peutz-Jeghers syndrome?. <i>Trends in Molecular Medicine</i> , 2006, 12, 144-147.	3.5	24
142	Fluorescence Lifetime Readouts of Troponin-C-Based Calcium FRET Sensors: A Quantitative Comparison of CFP and mTFP1 as Donor Fluorophores. <i>PLoS ONE</i> , 2012, 7, e49200.	1.1	24
143	AMPK-independent down-regulation of cFLIP and sensitization to TRAIL-induced apoptosis by AMPK activators. <i>Biochemical Pharmacology</i> , 2010, 79, 853-863.	2.0	23
144	Receptor Activity-Modifying Protein 2 (RAMP2) alters glucagon receptor trafficking in hepatocytes with functional effects on receptor signalling. <i>Molecular Metabolism</i> , 2021, 53, 101296.	3.0	23

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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. <i>Biochemical Journal</i> , 2002, 365, 629-638.	1.7	22
146	Thermogenic adipocytes: lineage, function and therapeutic potential. <i>Biochemical Journal</i> , 2020, 477, 2071-2093.	1.7	18
147	The role of phosphorylation/dephosphorylation of acetyl-CoA carboxylase in the regulation of mammalian fatty acid biosynthesis. <i>Biochemical Society Transactions</i> , 1986, 14, 559-562.	1.6	13
148	Isolation of a cyclic-AMP-independent protein kinase from rat liver and its effect on the enzymic activity of acetyl-CoA carboxylase. <i>Biochemical Society Transactions</i> , 1986, 14, 1076-1077.	1.6	12
149	Taking the Stress out of Melanoma. <i>Cancer Cell</i> , 2009, 15, 163-164.	7.7	12
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