Benoit Viollet

List of Publications by Year
in descending order

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346 papers	44,619 citations	2215 99 h-index	2280 200 g-index
370 all docs	370 docs citations	370 times ranked	48765 citing authors

#	Article	IF	Citations
1	Inactivation of AMPK Leads to Attenuation of Antigen Presentation and Immune Evasion in Lung Adenocarcinoma. Clinical Cancer Research, 2022, 28, 227-237.	7.0	11
2	Cell adhesion suppresses autophagy via Src/FAK-mediated phosphorylation and inhibition of AMPK. Cellular Signalling, 2022, 89, 110170.	3.6	8
3	AMPK-PERK axis represses oxidative metabolism and enhances apoptotic priming of mitochondria in acute myeloid leukemia. Cell Reports, 2022, 38, 110197.	6.4	22
4	Intestinal Epithelial AMPK Deficiency Causes Delayed Colonic Epithelial Repair in DSS-Induced Colitis. Cells, 2022, 11, 590.	4.1	13
5	At the crossroads of fertility and metabolism: the importance of AMPK-dependent signaling in female infertility associated with hyperandrogenism. Human Reproduction, 2022, 37, 1207-1228.	0.9	13
6	Atrial AMP-activated protein kinase is critical for prevention of dysregulation of electrical excitability and atrial fibrillation. JCI Insight, 2022, 7, .	5.0	6
7	The Marine-Derived Macrolactone Mandelalide A Is an Indirect Activator of AMPK. Marine Drugs, 2022, 20, 418.	4.6	4
8	AICAR and compound C negatively modulate HCC-induced primary human hepatic stellate cell activation in vitro. American Journal of Physiology - Renal Physiology, 2021, 320, G543-G556.	3.4	5
9	Acidosisâ€induced activation of distal nephron principal cells triggers Gdf15 secretion and adaptive proliferation of intercalated cells. Acta Physiologica, 2021, 232, e13661.	3.8	10
10	Deletion of intestinal epithelial AMP-activated protein kinase alters distal colon permeability but not glucose homeostasis. Molecular Metabolism, 2021, 47, 101183.	6.5	17
11	Human Î³Î´ T cell sensing of AMPK-dependent metabolic tumor reprogramming through TCR recognition of EphA2. Science Immunology, 2021, 6, .	11.9	23
12	Role of Cardiac AMP-Activated Protein Kinase in a Non-pathological Setting: Evidence From Cardiomyocyte-Specific, Inducible AMP-Activated Protein Kinase Î±1Î±2-Knockout Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 731015.	3.7	7
13	Metformin reduces macrophage HIF1Î±-dependent proinflammatory signaling to restore brown adipocyte function in vitro. Redox Biology, 2021, 48, 102171.	9.0	15
14	AMPK activation by SC4 inhibits noradrenaline-induced lipolysis and insulin-stimulated lipogenesis in white adipose tissue. Biochemical Journal, 2021, 478, 3869-3889.	3.7	4
15	Lack of Endothelial Î±1AMPK Reverses the Vascular Protective Effects of Exercise by Causing eNOS Uncoupling. Antioxidants, 2021, 10, 1974.	5.1	4
16	Myeloid deletion and therapeutic activation of AMPK do not alter atherosclerosis in male or female mice. Journal of Lipid Research, 2020, 61, 1697-1706.	4.2	6
17	Hypoglycemia-Sensing Neurons of the Ventromedial Hypothalamus Require AMPK-Induced Txn2 Expression but Are Dispensable for Physiological Counterregulation. Diabetes, 2020, 69, 2253-2266.	0.6	19
18	Activation of Adenosine Monophosphateâ€”Activated Protein Kinase Reduces the Onset of Dietâ€induced Hepatocellular Carcinoma in Mice. Hepatology Communications, 2020, 4, 1056-1072.	4.3	6

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19	Reciprocity Between Skeletal Muscle AMPK Deletion and Insulin Action in Diet-Induced Obese Mice. Diabetes, 2020, 69, 1636-1649.	0.6	11
20	Inducible deletion of skeletal muscle AMPKÎ± reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. Molecular Metabolism, 2020, 40, 101028.	6.5	32
21	Glucose availability but not changes in pancreatic hormones sensitizes hepatic AMPK activity during nutritional transition in rodents. Journal of Biological Chemistry, 2020, 295, 5836-5849.	3.4	11
22	Paradoxical activation of AMPK by glucose drives selective EP300 activityÂin colorectal cancer. PLoS Biology, 2020, 18, e3000732.	5.6	18
23	Editorial: AMPK and mTOR Beyond Signaling: Emerging Roles in Transcriptional Regulation. Frontiers in Cell and Developmental Biology, 2020, 8, 641552.	3.7	1
24	Metformin lowers glucose 6-phosphate in hepatocytes by activation of glycolysis downstream of glucose phosphorylation. Journal of Biological Chemistry, 2020, 295, 3330-3346.	3.4	22
25	The stress polarity signaling (SPS) pathway serves as a marker and a target in the leaky gut barrier: implications in aging and cancer. Life Science Alliance, 2020, 3, e201900481.	2.8	28
26	Understanding the glucoregulatory mechanisms of metformin in type 2 diabetes mellitus. Nature Reviews Endocrinology, 2019, 15, 569-589.	9.6	391
27	AMPK promotes induction of the tumor suppressor FLCN through activation of TFEB independently of mTOR. FASEB Journal, 2019, 33, 12374-12391.	0.5	57
28	AMPK Activation Promotes Tight Junction Assembly in Intestinal Epithelial Caco-2 Cells. International Journal of Molecular Sciences, 2019, 20, 5171.	4.1	38
29	Inhibition of mitochondrial complex 1 by the S6K1 inhibitor PF-4708671 partly contributes to its glucose metabolic effects in muscle and liver cells. Journal of Biological Chemistry, 2019, 294, 12250-12260.	3.4	16
30	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. Diabetes, 2019, 68, 1427-1440.	0.6	67
31	Metabolic and Innate Immune Cues Merge into a Specific Inflammatory Response via the UPR. Cell, 2019, 177, 1201-1216.e19.	28.9	100
32	Phenformin, But Not Metformin, Delays Development of T Cell Acute Lymphoblastic Leukemia/Lymphoma via Cell-Autonomous AMPK Activation. Cell Reports, 2019, 27, 690-698.e4.	6.4	54
33	AMP-Activated Protein Kinase Signalling. International Journal of Molecular Sciences, 2019, 20, 766.	4.1	7
34	Chemical genetic screen identifies Gapex-5/GAPVD1 and STBD1 as novel AMPK substrates. Cellular Signalling, 2019, 57, 45-57.	3.6	18
35	Editorial: Metformin: Beyond Diabetes. Frontiers in Endocrinology, 2019, 10, 851.	3.5	12
36	Endothelial Î±1AMPK modulates angiotensin II-mediated vascular inflammation and dysfunction. Basic Research in Cardiology, 2019, 114, 8.	5.9	32

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37	Finely-tuned regulation of AMP-activated protein kinase is crucial for human adult erythropoiesis. Haematologica, 2019, 104, 907-918.	3.5	8
38	LKB1 as a Gatekeeper of Hepatocyte Proliferation and Genomic Integrity during Liver Regeneration. Cell Reports, 2018, 22, 1994-2005.	6.4	23
39	Knockdown of Human AMPK Using the CRISPR/Cas9 Genome-Editing System. Methods in Molecular Biology, 2018, 1732, 171-194.	0.9	8
40	Measurement of AMPK-Induced Inhibition of Lipid Synthesis Flux in Cultured Cells. Methods in Molecular Biology, 2018, 1732, 363-371.	0.9	3
41	The adenosine monophosphateâ€“activated protein kinaseâ€”vacuolar adenosine triphosphataseâ€“pH axis: A key regulator of the profibrogenic phenotype of human hepatic stellate cells. Hepatology, 2018, 68, 1140-1153.	7.3	13
42	AMPK Re-Activation Suppresses Hepatic Steatosis but its Downregulation Does Not Promote Fatty Liver Development. EBioMedicine, 2018, 28, 194-209.	6.1	136
43	Promise and challenges for direct small molecule AMPK activators. Biochemical Pharmacology, 2018, 153, 147-158.	4.4	63
44	AMPK activation counteracts cardiac hypertrophy by reducing O-GlcNAcylation. Nature Communications, 2018, 9, 374.	12.8	179
45	A RAS-CaMKKÎ²-AMPKÎ±2 pathway promotes senescence by licensing post-translational activation of C/EBPÎ² through a novel 3â€²UTR mechanism. Oncogene, 2018, 37, 3528-3548.	5.9	12
46	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. Oncogene, 2018, 37, 963-970.	5.9	85
47	AMPK in skeletal muscle function and metabolism. FASEB Journal, 2018, 32, 1741-1777.	0.5	289
48	Endothelial autophagic flux hampers atherosclerotic lesion development. Autophagy, 2018, 14, 173-175.	9.1	24
49	AMPK Activation Reduces Hepatic Lipid Content by Increasing Fat Oxidation In Vivo. International Journal of Molecular Sciences, 2018, 19, 2826.	4.1	98
50	The LKB1â€“AMPK-Î±1 signaling pathway triggers hypoxic pulmonary vasoconstriction downstream of mitochondria. Science Signaling, 2018, 11, .	3.6	27
51	Loss of AMPKÎ±2 Impairs Hedgehog-Driven Medulloblastoma Tumorigenesis. International Journal of Molecular Sciences, 2018, 19, 3287.	4.1	5
52	Activation of AMPK for a Break in Hepatic Lipid Accumulation and Circulating Cholesterol. EBioMedicine, 2018, 31, 15-16.	6.1	5
53	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. Molecular Metabolism, 2018, 16, 24-34.	6.5	58
54	Î±1AMPK deletion in myelomonocytic cells induces a pro-inflammatory phenotype and enhances angiotensin II-induced vascular dysfunction. Cardiovascular Research, 2018, 114, 1883-1893.	3.8	22

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55	AICAR Antiproliferative Properties Involve the AMPK-Independent Activation of the Tumor Suppressors LATS 1 and 2. Neoplasia, 2018, 20, 555-562.	5.3	13
56	Metformin directly targets the H3K27me3 demethylase KDM6A/UTX. Aging Cell, 2018, 17, e12772.	6.7	58
57	A functional role for AMPK in female fertility and endometrial regeneration. Reproduction, 2018, 156, 501-513.	2.6	13
58	Kidney-specific genetic deletion of both AMPK Î±-subunits causes salt and water wasting. American Journal of Physiology - Renal Physiology, 2017, 312, F352-F365.	2.7	11
59	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. Cell Metabolism, 2017, 25, 1147-1159.e10.	16.2	205
60	Activation of AMP-activated protein kinase rapidly suppresses multiple pro-inflammatory pathways in adipocytes including IL-1 receptor-associated kinase-4 phosphorylation. Molecular and Cellular Endocrinology, 2017, 440, 44-56.	3.2	83
61	<scp>AMPK</scp>Î±1â€<scp>LDH</scp> pathway regulates muscle stem cell selfâ€renewal by controlling metabolic homeostasis. EMBO Journal, 2017, 36, 1946-1962.	7.8	95
62	GFAT1 phosphorylation by AMPK promotes VEGF-induced angiogenesis. Biochemical Journal, 2017, 474, 983-1001.	3.7	84
63	AMPK is not required for the effect of metformin on the inhibition of BMP6-induced hepcidin gene expression in hepatocytes. Scientific Reports, 2017, 7, 12679.	3.3	12
64	Autophagy is required for endothelial cell alignment and atheroprotection under physiological blood flow. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8675-E8684.	7.1	156
65	CDK4 Phosphorylates AMPKÎ±2 to Inhibit Its Activity and Repress Fatty Acid Oxidation. Molecular Cell, 2017, 68, 336-349.e6.	9.7	55
66	Loss of hepatic AMP-activated protein kinase impedes the rate of glycogenolysis but not gluconeogenic fluxes in exercising mice. Journal of Biological Chemistry, 2017, 292, 20125-20140.	3.4	46
67	The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. Nature Communications, 2017, 8, 571.	12.8	65
68	Chronic Intermittent Hypoxia Impairs Insulin Sensitivity but Improves Whole-Body Glucose Tolerance by Activating Skeletal Muscle AMPK. Diabetes, 2017, 66, 2942-2951.	0.6	60
69	Targeting tumour-stromal interactions â€“ differential pharmacological modification of AMPK/mTORC1 in human hepatic stellate cells and hepatocellular carcinoma. Journal of Hepatology, 2017, 66, S461.	3.7	0
70	The vacuolar adenosine tri-phosphatase (v-ATPase) proton pump as therapeutic target in human activated HSC. Journal of Hepatology, 2017, 66, S650.	3.7	0
71	Modifying the Dietary Carbohydrate-to-Protein Ratio Alters the Postprandial Macronutrient Oxidation Pattern in Liver of AMPK-Deficient Mice. Journal of Nutrition, 2017, 147, 1669-1676.	2.9	27
72	Metformin suppresses adipogenesis through both AMP-activated protein kinase (AMPK)-dependent and AMPK-independent mechanisms. Molecular and Cellular Endocrinology, 2017, 440, 57-68.	3.2	105

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73	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.6	137
74	The Energy Sensor AMPK: Adaptations to Exercise, Nutritional and Hormonal Signals. Research and Perspectives in Endocrine Interactions, 2017, , 13-24.	0.2	10
75	Stromal Lkb1 deficiency leads to gastrointestinal tumorigenesis involving the IL-11â€“JAK/STAT3 pathway. Journal of Clinical Investigation, 2017, 128, 402-414.	8.2	56
76	Liver AMP-Activated Protein Kinase Is Unnecessary for Gluconeogenesis but Protects Energy State during Nutrient Deprivation. PLoS ONE, 2017, 12, e0170382.	2.5	20
77	Obesity Impairs Skeletal Muscle Regeneration Through Inhibition of AMPK. Diabetes, 2016, 65, 188-200.	0.6	127
78	Editorial (Thematic Issue: AMPK: New Frontiers in Human Diseases). Current Drug Targets, 2016, 17, 852-852.	2.1	1
79	AMPK antagonizes hepatic glucagon-stimulated cyclic AMP signalling via phosphorylation-induced activation of cyclic nucleotide phosphodiesterase 4B. Nature Communications, 2016, 7, 10856.	12.8	117
80	AMP-activated protein kinase modulates tau phosphorylation and tau pathology in vivo. Scientific Reports, 2016, 6, 26758.	3.3	95
81	Myeloid-Restricted AMPKÎ±1 Promotes Host Immunity and Protects against IL-12/23p40â€“Dependent Lung Injury during Hookworm Infection. Journal of Immunology, 2016, 196, 4632-4640.	0.8	23
82	Investigation of salicylate hepatic responses in comparison with chemical analogues of the drug. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1412-1422.	3.8	8
83	AMP-activated Protein Kinase Up-regulates Mitogen-activated Protein (MAP) Kinase-interacting Serine/Threonine Kinase 1a-dependent Phosphorylation of Eukaryotic Translation Initiation Factor 4E. Journal of Biological Chemistry, 2016, 291, 17020-17027.	3.4	9
84	AMPK/Î±-Ketoglutarate Axis Dynamically Mediates DNA Demethylation in the Prdm16 Promoter and Brown Adipogenesis. Cell Metabolism, 2016, 24, 542-554.	16.2	195
85	Anti-Inflammatory Effects of Metformin Irrespective of Diabetes Status. Circulation Research, 2016, 119, 652-665.	4.5	498
86	Phosphorylation of Janus kinase 1 (JAK1) by AMP-activated protein kinase (AMPK) links energy sensing to anti-inflammatory signaling. Science Signaling, 2016, 9, ra109.	3.6	80
87	Animal Models to Study AMPK. Exs, 2016, 107, 441-469.	1.4	5
88	AMP-activated Protein Kinase. Exs, 2016, , .	1.4	10
89	Targeting AMPK: From Ancient Drugs to New Small-Molecule Activators. Exs, 2016, 107, 327-350.	1.4	25
90	343 Mitochondrial dysfunction activates the AMPK signaling and autophagy to promote cell survival. Journal of Investigative Dermatology, 2016, 136, S60.	0.7	1

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91	Mitochondrial dysfunction activates the AMPK signaling and autophagy to promote cell survival. Genes and Diseases, 2016, 3, 82-87.	3.4	51
92	AMP-Activated Protein Kinase Suppresses Autoimmune Central Nervous System Disease by Regulating M1-Type Macrophageâ€“Th17 Axis. Journal of Immunology, 2016, 197, 747-760.	0.8	25
93	Specific deletion of AMP-activated protein kinase (Î±1AMPK) in mouse Sertoli cells modifies germ cell quality. Molecular and Cellular Endocrinology, 2016, 423, 96-112.	3.2	34
94	AMP-activated Protein Kinase Deficiency Blocks the Hypoxic Ventilatory Response and Thus Precipitates Hypoventilation and Apnea. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 1032-1043.	5.6	41
95	AMP-activated protein kinase suppresses urate crystal-induced inflammation and transduces colchicine effects in macrophages. Annals of the Rheumatic Diseases, 2016, 75, 286-294.	0.9	91
96	p53 coordinates decidual sestrin 2/AMPK/mTORC1 signaling to govern parturition timing. Journal of Clinical Investigation, 2016, 126, 2941-2954.	8.2	70
97	Proglucagon Promoter Cre-Mediated AMPK Deletion in Mice Increases Circulating GLP-1 Levels and Oral Glucose Tolerance. PLoS ONE, 2016, 11, e0149549.	2.5	13
98	AMP-activated Protein Kinase As a Target For Pathogens: Friends Or Foes?. Current Drug Targets, 2016, 17, 942-953.	2.1	28
99	Biotin deprivation impairs mitochondrial structure and function and has implications for inherited metabolic disorders. Molecular Genetics and Metabolism, 2015, 116, 204-214.	1.1	15
100	AMPK maintains energy homeostasis and survival in cancer cells via regulating p38/PGC-1Î±-mediated mitochondrial biogenesis. Cell Death Discovery, 2015, 1, 15063.	4.7	117
101	Specific Deletion of AMP-Activated Protein Kinase (Î±1AMPK) in Murine Oocytes Alters Junctional Protein Expression and Mitochondrial Physiology. PLoS ONE, 2015, 10, e0119680.	2.5	28
102	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. PLoS Biology, 2015, 13, e1002309.	5.6	176
103	LKB1 and AMPKÎ±1 are required in pancreatic alpha cells for the normal regulation of glucagon secretion and responses to hypoglycemia. Molecular Metabolism, 2015, 4, 277-286.	6.5	23
104	Beyond Energy Homeostasis: the Expanding Role of AMP-Activated Protein Kinase in Regulating Metabolism. Cell Metabolism, 2015, 21, 799-804.	16.2	77
105	The PRKAA1/AMPKÎ±1 pathway triggers autophagy during CSF1-induced human monocyte differentiation and is a potential target in CMML. Autophagy, 2015, 11, 1114-1129.	9.1	86
106	Metformin takes a new route to clinical efficacy. Nature Reviews Endocrinology, 2015, 11, 390-392.	9.6	14
107	Direct Binding of Arsenic Trioxide to AMPK and Generation of Inhibitory Effects on Acute Myeloid Leukemia Precursors. Molecular Cancer Therapeutics, 2015, 14, 202-212.	4.1	24
108	Co-activation of AMPK and mTORC1 Induces Cytotoxicity in Acute Myeloid Leukemia. Cell Reports, 2015, 11, 1446-1457.	6.4	93

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109	The Energy Sensor AMPK Regulates T Cell Metabolic Adaptation and Effector Responses InÂVivo. Immunity, 2015, 42, 41-54.	14.3	505
110	AMPKÎ± is critical for enhancing skeletal muscle fatty acid utilization duringin vivoexercise in mice. FASEB Journal, 2015, 29, 1725-1738.	0.5	68
111	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.6	115
112	Mitochondrial dysfunction in primary human fibroblasts triggers an adaptive cell survival program that requires AMPK-Î±. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 529-540.	3.8	40
113	Translational Tolerance of Mitochondrial Genes to Metabolic Energy Stress Involves TISU and eIF1-eIF4GI Cooperation in Start Codon Selection. Cell Metabolism, 2015, 21, 479-492.	16.2	80
114	Leishmania infantum Modulates Host Macrophage Mitochondrial Metabolism by Hijacking the SIRT1-AMPK Axis. PLoS Pathogens, 2015, 11, e1004684.	4.7	96
115	AMPK Suppresses Vascular Inflammation In Vivo by Inhibiting Signal Transducer and Activator of Transcription-1. Diabetes, 2015, 64, 4285-4297.	0.6	58
116	Activation of AMPKÎ±2 in adipocytes is essential for nicotine-induced insulin resistance in vivo. Nature Medicine, 2015, 21, 373-382.	30.7	143
117	Expanding roles for AMPK in skeletal muscle plasticity. Trends in Endocrinology and Metabolism, 2015, 26, 275-286.	7.1	111
118	Motif affinity and mass spectrometry proteomic approach for the discovery of cellular AMPK targets: Identification of mitochondrial fission factor as a new AMPK substrate. Cellular Signalling, 2015, 27, 978-988.	3.6	143
119	AMPKÎ± is essential for acute exercise-induced gene responses but not for exercise training-induced adaptations in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E900-E914.	3.5	28
120	Apoptolidins A and C activate AMPK in metabolically sensitive cell types and are mechanistically distinct from oligomycin A. Biochemical Pharmacology, 2015, 93, 251-265.	4.4	17
121	Differential effects of AMPK agonists on cell growth and metabolism. Oncogene, 2015, 34, 3627-3639.	5.9	121
122	AMPK Signaling Involvement for the Repression of the IL-1Î²-Induced Group IIA Secretory Phospholipase A2 Expression in VSMCs. PLoS ONE, 2015, 10, e0132498.	2.5	11
123	AMPK Activation by A-769662 Controls IL-6 Expression in Inflammatory Arthritis. PLoS ONE, 2015, 10, e0140452.	2.5	39
124	AMP-activated protein kinase is dispensable for maintaining ATP levels and for survival following inhibition of glycolysis, but promotes tumour engraftment of Ras-transformed fibroblasts. Oncotarget, 2015, 6, 11833-11847.	1.8	7
125	Adenosine-Mono-Phosphate-Activated Protein Kinase-Independent Effects of Metformin in T Cells. PLoS ONE, 2014, 9, e106710.	2.5	31
126	Metformin Protects Against Systolic Overloadâ€“Induced Heart Failure Independent of AMP-Activated Protein Kinase Î±2. Hypertension, 2014, 63, 723-728.	2.7	66

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127	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535.	12.8	131
128	The Ca2+ /calmodulin-dependent kinase kinaseÂÎ²-AMP-activated protein kinase-Î±1 pathway regulates phosphorylation of cytoskeletal targets in thrombin-stimulated human platelets. Journal of Thrombosis and Haemostasis, 2014, 12, 973-986.	3.8	30
129	Interleukinâ€6 deletion in mice driven by a<scp>P</scp>2â€<scp>C</scp>reâ€<scp>ERT</scp>2 prevents against highâ€fat dietâ€induced gain weight and adiposity in female mice. Acta Physiologica, 2014, 211, 585-596.	3.8	13
130	Role of AMP-activated protein kinase in regulating hypoxic survival and proliferation of mesenchymal stem cells. Cardiovascular Research, 2014, 101, 20-29.	3.8	36
131	Inhibition of AMP-Activated Protein Kinase Signaling Alleviates Impairments in Hippocampal Synaptic Plasticity Induced by Amyloid Î². Journal of Neuroscience, 2014, 34, 12230-12238.	3.6	143
132	5-Aminoimidazole-4-carboxamide-1-Î²-d-ribofuranoside (AICAR) Effect on Glucose Production, but Not Energy Metabolism, Is Independent of Hepatic AMPK in Vivo. Journal of Biological Chemistry, 2014, 289, 5950-5959.	3.4	60
133	The AMPK-SIRT signaling network regulates glucose tolerance under calorie restriction conditions. Life Sciences, 2014, 100, 55-60.	4.3	33
134	A small-molecule benzimidazole derivative that potently activates AMPK to increase glucose transport in skeletal muscle: comparison with effects of contraction and other AMPK activators. Biochemical Journal, 2014, 460, 363-375.	3.7	71
135	AMP-Activated Protein Kinase Induces p53 by Phosphorylating MDMX and Inhibiting Its Activity. Molecular and Cellular Biology, 2014, 34, 148-157.	2.3	86
136	Discrete mechanisms of mTOR and cell cycle regulation by AMPK agonists independent of AMPK. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E435-44.	7.1	194
137	PRKAA1/AMPKÎ±1 is required for autophagy-dependent mitochondrial clearance during erythrocyte maturation. Autophagy, 2014, 10, 1522-1534.	9.1	31
138	Lipoprotein internalisation induced by oncogenic AMPK activation is essential to maintain glioblastoma cell growth. European Journal of Cancer, 2014, 50, 3187-3197.	2.8	28
139	Metformin: From Mechanisms of Action to Therapies. Cell Metabolism, 2014, 20, 953-966.	16.2	1,019
140	Peroxisome Proliferatorâ€“Activated Receptor Î³ Coactivator 1Î± and FoxO3A Mediate Chondroprotection by AMPâ€Activated Protein Kinase. Arthritis and Rheumatology, 2014, 66, 3073-3082.	5.6	83
141	AMP-activated Protein Kinase Î±2 and E2F1 Transcription Factor Mediate Doxorubicin-induced Cytotoxicity by Forming a Positive Signal Loop in Mouse Embryonic Fibroblasts and Non-carcinoma Cells. Journal of Biological Chemistry, 2014, 289, 4839-4852.	3.4	20
142	Mechanism of Action of Compound-13: An Î±1-Selective Small Molecule Activator of AMPK. Chemistry and Biology, 2014, 21, 866-879.	6.0	103
143	LKB1 and AMPK regulate synaptic remodeling in old age. Nature Neuroscience, 2014, 17, 1190-1197.	14.8	106
144	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. FASEB Journal, 2014, 28, 3211-3224.	0.5	182

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145	Reduced scar maturation and contractility lead to exaggerated left ventricular dilation after myocardial infarction in mice lacking AMPKÎ±1. Journal of Molecular and Cellular Cardiology, 2014, 74, 32-43.	1.9	52
146	AMPKÎ±1 controls hepatocyte proliferation independently of energy balance by regulating Cyclin A2 expression. Journal of Hepatology, 2014, 60, 152-159.	3.7	38
147	Bypassing AMPK Phosphorylation. Chemistry and Biology, 2014, 21, 567-569.	6.0	12
148	Co-Activation of AMPK and mTORC1 Is Synthetically Lethal in Acute Myeloid Leukemia. Blood, 2014, 124, 616-616.	1.4	0
149	The P2Y6-AMPK Pathway Triggers Autophagy during CSF-1-Induced Human Monocyte Differentiation and Is a Potential Target in CMML. Blood, 2014, 124, 4347-4347.	1.4	0
150	The anti-diabetic drug metformin does not affect bone mass in vivo or fracture healing. Osteoporosis International, 2013, 24, 2659-2670.	3.1	74
151	AMPKÎ±1 deficiency amplifies proinflammatory myeloid APC activity and CD40 signaling. Journal of Leukocyte Biology, 2013, 94, 1113-1121.	3.3	91
152	AMPKÎ±1 Regulates Macrophage Skewing at the Time of Resolution of Inflammation during Skeletal Muscle Regeneration. Cell Metabolism, 2013, 18, 251-264.	16.2	375
153	Perivascular Adipose Tissue Control of Insulin-Induced Vasoreactivity in Muscle Is Impaired in db/db Mice. Diabetes, 2013, 62, 590-598.	0.6	105
154	TIM-4 Glycoprotein-Mediated Degradation of Dying Tumor Cells by Autophagy Leads to Reduced Antigen Presentation and Increased Immune Tolerance. Immunity, 2013, 39, 1070-1081.	14.3	100
155	Revisiting the mechanisms of metformin action in the liver. Annales D'Endocrinologie, 2013, 74, 123-129.	1.4	57
156	AMP-Activated Protein Kinase Î±1 but Not Î±2 Catalytic Subunit Potentiates Myogenin Expression and Myogenesis. Molecular and Cellular Biology, 2013, 33, 4517-4525.	2.3	57
157	Susceptibility to ATP depletion of primary proximal tubular cell cultures derived from mice lacking either the Î±1 or the Î±2 isoform of the catalytic domain of AMPK. BMC Nephrology, 2013, 14, 251.	1.8	6
158	AMPK Is a Negative Regulator of the Warburg Effect and Suppresses Tumor Growth InÂVivo. Cell Metabolism, 2013, 17, 113-124.	16.2	754
159	Biguanides suppress hepatic glucagon signalling by decreasing production of cyclic AMP. Nature, 2013, 494, 256-260.	27.8	707
160	Overexpression of AMP-activated protein kinase or protein kinase D prevents lipid-induced insulin resistance in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2013, 55, 165-173.	1.9	14
161	Differential regulation of eEF2 and p70S6K by AMPKalpha2 in heart. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 780-790.	3.8	20
162	Inhibition of AMP-Activated Protein Kinase Accentuates Lipopolysaccharide-Induced Lung Endothelial Barrier Dysfunction and Lung Injury inÂVivo. American Journal of Pathology, 2013, 182, 1021-1030.	3.8	76

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163	Role of AMPK in UVB-induced DNA damage repair and growth control. Oncogene, 2013, 32, 2682-2689.	5.9	82
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