Benoit Viollet

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

328 papers 36,265 citations

91 h-index 183 g-index

369 ext. papers

40,885 ext. citations

7.9 avg, IF

7.17 L-index

#	Paper	IF	Citations
328	AMPK and mTOR regulate autophagy through direct phosphorylation of Ulk1. <i>Nature Cell Biology</i> , 2011 , 13, 132-41	23.4	4181
327	Phosphorylation of ULK1 (hATG1) by AMP-activated protein kinase connects energy sensing to mitophagy. <i>Science</i> , 2011 , 331, 456-61	33.3	1746
326	Cellular and molecular mechanisms of metformin: an overview. <i>Clinical Science</i> , 2012 , 122, 253-70	6.5	1094
325	Metformin inhibits hepatic gluconeogenesis in mice independently of the LKB1/AMPK pathway via a decrease in hepatic energy state. <i>Journal of Clinical Investigation</i> , 2010 , 120, 2355-69	15.9	848
324	Systemic treatment with the antidiabetic drug metformin selectively impairs p53-deficient tumor cell growth. <i>Cancer Research</i> , 2007 , 67, 6745-52	10.1	746
323	Metformin: from mechanisms of action to therapies. <i>Cell Metabolism</i> , 2014 , 20, 953-66	24.6	715
322	Metformin, independent of AMPK, inhibits mTORC1 in a rag GTPase-dependent manner. <i>Cell Metabolism</i> , 2010 , 11, 390-401	24.6	631
321	AMPK is a negative regulator of the Warburg effect and suppresses tumor growth in vivo. <i>Cell Metabolism</i> , 2013 , 17, 113-24	24.6	593
32 0	Biguanides suppress hepatic glucagon signalling by decreasing production of cyclic AMP. <i>Nature</i> , 2013 , 494, 256-60	50.4	565
319	AMP-activated protein kinase-deficient mice are resistant to the metabolic effects of resveratrol. <i>Diabetes</i> , 2010 , 59, 554-63	0.9	540
318	Knockout of the alpha2 but not alpha1 5'-AMP-activated protein kinase isoform abolishes 5-aminoimidazole-4-carboxamide-1-beta-4-ribofuranosidebut not contraction-induced glucose uptake in skeletal muscle. <i>Journal of Biological Chemistry</i> , 2004 , 279, 1070-9	5.4	436
317	Anti-obesity effects of alpha-lipoic acid mediated by suppression of hypothalamic AMP-activated protein kinase. <i>Nature Medicine</i> , 2004 , 10, 727-33	50.5	424
316	The AMP-activated protein kinase alpha2 catalytic subunit controls whole-body insulin sensitivity. Journal of Clinical Investigation, 2003 , 111, 91-8	15.9	396
315	Activation of AMP-activated protein kinase in the liver: a new strategy for the management of metabolic hepatic disorders. <i>Journal of Physiology</i> , 2006 , 574, 41-53	3.9	394
314	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. <i>Journal of Clinical Investigation</i> , 2007 , 117, 2325-36	15.9	377
313	The energy sensor AMPK regulates T cell metabolic adaptation and effector responses in vivo. <i>Immunity</i> , 2015 , 42, 41-54	32.3	372
312	5'-AMP-activated protein kinase (AMPK) is induced by low-oxygen and glucose deprivation conditions found in solid-tumor microenvironments. <i>Molecular and Cellular Biology</i> , 2006 , 26, 5336-47	4.8	365

(2005-2006)

311	Activation of the AMP-activated kinase by antidiabetes drug metformin stimulates nitric oxide synthesis in vivo by promoting the association of heat shock protein 90 and endothelial nitric oxide synthase. <i>Diabetes</i> , 2006 , 55, 496-505	0.9	360
310	Bcl-2 protects from lethal hepatic apoptosis induced by an anti-Fas antibody in mice. <i>Nature Medicine</i> , 1996 , 2, 80-6	50.5	354
309	AMP-activated protein kinase in the regulation of hepatic energy metabolism: from physiology to therapeutic perspectives. <i>Acta Physiologica</i> , 2009 , 196, 81-98	5.6	334
308	Mechanism of action of A-769662, a valuable tool for activation of AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 32549-60	5.4	329
307	Anti-Inflammatory Effects of Metformin Irrespective of Diabetes Status. <i>Circulation Research</i> , 2016 , 119, 652-65	15.7	326
306	AMPK dysregulation promotes diabetes-related reduction of superoxide and mitochondrial function. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4888-99	15.9	310
305	Short-term overexpression of a constitutively active form of AMP-activated protein kinase in the liver leads to mild hypoglycemia and fatty liver. <i>Diabetes</i> , 2005 , 54, 1331-9	0.9	301
304	AMPKII regulates macrophage skewing at the time of resolution of inflammation during skeletal muscle regeneration. <i>Cell Metabolism</i> , 2013 , 18, 251-64	24.6	300
303	Signaling kinase AMPK activates stress-promoted transcription via histone H2B phosphorylation. <i>Science</i> , 2010 , 329, 1201-5	33.3	282
302	AMPK inhibition in health and disease. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010 , 45, 276-95	8.7	281
301	Anti-lipolytic action of AMP-activated protein kinase in rodent adipocytes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25250-7	5.4	259
300	AMPKalpha2 deletion causes aberrant expression and activation of NAD(P)H oxidase and consequent endothelial dysfunction in vivo: role of 26S proteasomes. <i>Circulation Research</i> , 2010 , 106, 1117-28	15.7	254
299	Hypoxic activation of AMPK is dependent on mitochondrial ROS but independent of an increase in AMP/ATP ratio. <i>Free Radical Biology and Medicine</i> , 2009 , 46, 1386-91	7.8	241
298	Intestinal gluconeogenesis is a key factor for early metabolic changes after gastric bypass but not after gastric lap-band in mice. <i>Cell Metabolism</i> , 2008 , 8, 201-11	24.6	240
297	Nicotinamide phosphoribosyltransferase protects against ischemic stroke through SIRT1-dependent adenosine monophosphate-activated kinase pathway. <i>Annals of Neurology</i> , 2011 , 69, 360-74	9.4	236
296	5-aminoimidazole-4-carboxamide-1-beta-4-ribofuranoside inhibits proinflammatory response in glial cells: a possible role of AMP-activated protein kinase. <i>Journal of Neuroscience</i> , 2004 , 24, 479-87	6.6	234
295	A role for AMP-activated protein kinase in diabetes-induced renal hypertrophy. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 292, F617-27	4.3	231
294	Effects of alpha-AMPK knockout on exercise-induced gene activation in mouse skeletal muscle. <i>FASEB Journal</i> , 2005 , 19, 1146-8	0.9	230

293	Metformin reduces endogenous reactive oxygen species and associated DNA damage. <i>Cancer Prevention Research</i> , 2012 , 5, 536-43	3.2	224
292	Polyunsaturated fatty acids suppress glycolytic and lipogenic genes through the inhibition of ChREBP nuclear protein translocation. <i>Journal of Clinical Investigation</i> , 2005 , 115, 2843-54	15.9	223
291	AMPK: Lessons from transgenic and knockout animals. Frontiers in Bioscience - Landmark, 2009, 14, 19-	44 2.8	221
290	AMPK-mediated AS160 phosphorylation in skeletal muscle is dependent on AMPK catalytic and regulatory subunits. <i>Diabetes</i> , 2006 , 55, 2051-8	0.9	215
289	Maintenance of metabolic homeostasis by Sestrin2 and Sestrin3. Cell Metabolism, 2012, 16, 311-21	24.6	200
288	PKA phosphorylates and inactivates AMPKalpha to promote efficient lipolysis. <i>EMBO Journal</i> , 2010 , 29, 469-81	13	200
287	Targeting the AMPK pathway for the treatment of Type 2 diabetes. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 3380-400	2.8	198
286	The alpha2-5'AMP-activated protein kinase is a site 2 glycogen synthase kinase in skeletal muscle and is responsive to glucose loading. <i>Diabetes</i> , 2004 , 53, 3074-81	0.9	197
285	Physiological role of AMP-activated protein kinase (AMPK): insights from knockout mouse models. <i>Biochemical Society Transactions</i> , 2003 , 31, 216-9	5.1	196
284	Resveratrol inhibits cardiac hypertrophy via AMP-activated protein kinase and Akt. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24194-201	5.4	192
283	Liver adenosine monophosphate-activated kinase-alpha2 catalytic subunit is a key target for the control of hepatic glucose production by adiponectin and leptin but not insulin. <i>Endocrinology</i> , 2006 , 147, 2432-41	4.8	190
282	Metformin activates AMP-activated protein kinase in primary human hepatocytes by decreasing cellular energy status. <i>Diabetologia</i> , 2011 , 54, 3101-10	10.3	187
281	Understanding the glucoregulatory mechanisms of metformin in type 2 diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2019 , 15, 569-589	15.2	183
280	Activation of AMP-activated protein kinase 2 by nicotine instigates formation of abdominal aortic aneurysms in mice in vivo. <i>Nature Medicine</i> , 2012 , 18, 902-10	50.5	181
279	Neuroprotective effects of adenosine monophosphate-activated protein kinase inhibition and gene deletion in stroke. <i>Stroke</i> , 2007 , 38, 2992-9	6.7	181
278	AMPK in skeletal muscle function and metabolism. <i>FASEB Journal</i> , 2018 , 32, 1741-1777	0.9	172
277	Discrete mechanisms of mTOR and cell cycle regulation by AMPK agonists independent of AMPK. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E435-44	11.5	170
276	AMPKI: a glucose sensor that controls CD8 T-cell memory. <i>European Journal of Immunology</i> , 2013 , 43, 889-96	6.1	168

(2010-1996)

275	Immunochemical characterization and transacting properties of upstream stimulatory factor isoforms. <i>Journal of Biological Chemistry</i> , 1996 , 271, 1405-15	5.4	168
274	Activation of 5'-AMP-activated kinase with diabetes drug metformin induces casein kinase Iepsilon (CKIepsilon)-dependent degradation of clock protein mPer2. <i>Journal of Biological Chemistry</i> , 2007 , 282, 20794-8	5.4	165
273	Protein kinase A-dependent phosphorylation modulates DNA-binding activity of hepatocyte nuclear factor 4. <i>Molecular and Cellular Biology</i> , 1997 , 17, 4208-19	4.8	161
272	5-Aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside and metformin inhibit hepatic glucose phosphorylation by an AMP-activated protein kinase-independent effect on glucokinase translocation. <i>Diabetes</i> , 2006 , 55, 865-74	0.9	159
271	The LKB1/AMPK signaling pathway has tumor suppressor activity in acute myeloid leukemia through the repression of mTOR-dependent oncogenic mRNA translation. <i>Blood</i> , 2010 , 116, 4262-73	2.2	153
270	The glycolytic shift in fumarate-hydratase-deficient kidney cancer lowers AMPK levels, increases anabolic propensities and lowers cellular iron levels. <i>Cancer Cell</i> , 2011 , 20, 315-27	24.3	152
269	AMP activated protein kinase-alpha2 deficiency exacerbates pressure-overload-induced left ventricular hypertrophy and dysfunction in mice. <i>Hypertension</i> , 2008 , 52, 918-24	8.5	150
268	Upregulation of mitochondrial uncoupling protein-2 by the AMP-activated protein kinase in endothelial cells attenuates oxidative stress in diabetes. <i>Diabetes</i> , 2008 , 57, 3222-30	0.9	143
267	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. <i>FASEB Journal</i> , 2014 , 28, 3211-24	0.9	142
266	Metformin Antagonizes Cancer Cell Proliferation by Suppressing Mitochondrial-Dependent Biosynthesis. <i>PLoS Biology</i> , 2015 , 13, e1002309	9.7	142
265	S6 kinase deletion suppresses muscle growth adaptations to nutrient availability by activating AMP kinase. <i>Cell Metabolism</i> , 2007 , 5, 476-87	24.6	142
264	Role of AMPKalpha2 in basal, training-, and AICAR-induced GLUT4, hexokinase II, and mitochondrial protein expression in mouse muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E331-9	6	140
263	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. <i>Cell Metabolism</i> , 2017 , 25, 1147-1159.e10	24.6	139
262	AMPK/EKetoglutarate Axis Dynamically Mediates DNA Demethylation in the Prdm16 Promoter and Brown Adipogenesis. <i>Cell Metabolism</i> , 2016 , 24, 542-554	24.6	135
261	Targeting AMP-activated protein kinase as a novel therapeutic approach for the treatment of metabolic disorders. <i>Diabetes and Metabolism</i> , 2007 , 33, 395-402	5.4	134
260	AMP-activated protein kinase (AMPK) activation regulates in vitro bone formation and bone mass. <i>Bone</i> , 2010 , 47, 309-19	4.7	131
259	Hepatocyte nuclear factor-4alpha involved in type 1 maturity-onset diabetes of the young is a novel target of AMP-activated protein kinase. <i>Diabetes</i> , 2001 , 50, 1515-21	0.9	127
258	AMPK-independent induction of autophagy by cytosolic Ca2+ increase. <i>Cellular Signalling</i> , 2010 , 22, 914	-2.5	126

257	Adiponectin suppresses gluconeogenic gene expression in mouse hepatocytes independent of LKB1-AMPK signaling. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2518-28	15.9	125
256	In vivo activation of AMP-activated protein kinase attenuates diabetes-enhanced degradation of GTP cyclohydrolase I. <i>Diabetes</i> , 2009 , 58, 1893-901	0.9	121
255	Induced adiposity and adipocyte hypertrophy in mice lacking the AMP-activated protein kinase-alpha2 subunit. <i>Diabetes</i> , 2004 , 53, 2242-9	0.9	120
254	Diet and gastrointestinal bypass-induced weight loss: the roles of ghrelin and peptide YY. <i>Diabetes</i> , 2011 , 60, 810-8	0.9	113
253	Inhibition of AMP-activated protein kinase signaling alleviates impairments in hippocampal synaptic plasticity induced by amyloid [] <i>Journal of Neuroscience</i> , 2014 , 34, 12230-8	6.6	111
252	Motif affinity and mass spectrometry proteomic approach for the discovery of cellular AMPK targets: identification of mitochondrial fission factor as a new AMPK substrate. <i>Cellular Signalling</i> , 2015 , 27, 978-88	4.9	109
251	AMPK activation counteracts cardiac hypertrophy by reducing O-GlcNAcylation. <i>Nature Communications</i> , 2018 , 9, 374	17.4	108
250	Activation of AMPKI in adipocytes is essential for nicotine-induced insulin resistance in vivo. <i>Nature Medicine</i> , 2015 , 21, 373-82	50.5	107
249	Transcription factor-dependent regulation of CBP and P/CAF histone acetyltransferase activity. <i>EMBO Journal</i> , 2001 , 20, 1984-92	13	102
248	Differential effects of AMPK agonists on cell growth and metabolism. <i>Oncogene</i> , 2015 , 34, 3627-39		00
- 4°	birrerentiaterrects of 7 time it agomists on eat grower and metabotisms one ogene, 2012 , 51, 5021 35	9.2	99
247	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535	17.4	99
	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver.		
247	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535 Important role for AMPKalpha1 in limiting skeletal muscle cell hypertrophy. FASEB Journal, 2009,	17.4	99
247 246	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535 Important role for AMPKalpha1 in limiting skeletal muscle cell hypertrophy. FASEB Journal, 2009, 23, 2264-73 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,	17.4 0.9	99
247246245	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. Nature Communications, 2014, 5, 4535 Important role for AMPKalpha1 in limiting skeletal muscle cell hypertrophy. FASEB Journal, 2009, 23, 2264-73 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 AMP-activated protein kinase inhibits transforming growth factor-beta-induced Smad3-dependent	17.4 0.9	99 99 98
247246245244	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. <i>Nature Communications</i> , 2014 , 5, 4535 Important role for AMPKalpha1 in limiting skeletal muscle cell hypertrophy. <i>FASEB Journal</i> , 2009 , 23, 2264-73 Autophagy is required for endothelial cell alignment and atheroprotection under physiological blood flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8675-E8684 AMP-activated protein kinase inhibits transforming growth factor-beta-induced Smad3-dependent transcription and myofibroblast transdifferentiation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 10461-91.	17.4 0.9 11.5	99 99 98 97
247246245244243	The LKB1-salt-inducible kinase pathway functions as a key gluconeogenic suppressor in the liver. <i>Nature Communications</i> , 2014 , 5, 4535 Important role for AMPKalpha1 in limiting skeletal muscle cell hypertrophy. <i>FASEB Journal</i> , 2009 , 23, 2264-73 Autophagy is required for endothelial cell alignment and atheroprotection under physiological blood flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8675-E8684 AMP-activated protein kinase inhibits transforming growth factor-beta-induced Smad3-dependent transcription and myofibroblast transdifferentiation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 10461-91. AMP-activated protein kinase phosphorylates and desensitizes smooth muscle myosin light chain kinase. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18505-12 Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> ,	17.4 0.9 11.5 95.4 5.4	99 99 98 97 95

239	AMP-activated protein kinase-independent inhibition of hepatic mitochondrial oxidative phosphorylation by AICA riboside. <i>Biochemical Journal</i> , 2007 , 404, 499-507	3.8	92
238	AMPK regulates circadian rhythms in a tissue- and isoform-specific manner. <i>PLoS ONE</i> , 2011 , 6, e18450	3.7	91
237	Activation of AMP kinase alpha1 subunit induces aortic vasorelaxation in mice. <i>Journal of Physiology</i> , 2007 , 581, 1163-71	3.9	90
236	Obesity Impairs Skeletal Muscle Regeneration Through Inhibition of AMPK. <i>Diabetes</i> , 2016 , 65, 188-200	0.9	87
235	Mechanism of action of compound-13: an 🛭 -selective small molecule activator of AMPK. <i>Chemistry and Biology</i> , 2014 , 21, 866-79		87
234	Prior AICAR stimulation increases insulin sensitivity in mouse skeletal muscle in an AMPK-dependent manner. <i>Diabetes</i> , 2015 , 64, 2042-55	0.9	87
233	Cardiotrophin-1 is a key regulator of glucose and lipid metabolism. <i>Cell Metabolism</i> , 2011 , 14, 242-53	24.6	86
232	AMP-activated protein kinase (AMPK) activity is not required for neuronal development but regulates axogenesis during metabolic stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5849-54	11.5	86
231	Ablation of AMP-activated protein kinase alpha1 and alpha2 from mouse pancreatic beta cells and RIP2.Cre neurons suppresses insulin release in vivo. <i>Diabetologia</i> , 2010 , 53, 924-36	10.3	86
230	AMP-activated protein kinase regulates lymphocyte responses to metabolic stress but is largely dispensable for immune cell development and function. <i>European Journal of Immunology</i> , 2008 , 38, 948-	-86 ¹	86
229	Expanding roles for AMPK in skeletal muscle plasticity. <i>Trends in Endocrinology and Metabolism</i> , 2015 , 26, 275-86	8.8	84
228	TIM-4 glycoprotein-mediated degradation of dying tumor cells by autophagy leads to reduced antigen presentation and increased immune tolerance. <i>Immunity</i> , 2013 , 39, 1070-81	32.3	83
227	AICAR induces apoptosis independently of AMPK and p53 through up-regulation of the BH3-only proteins BIM and NOXA in chronic lymphocytic leukemia cells. <i>Blood</i> , 2010 , 116, 3023-32	2.2	83
226	AMPK antagonizes hepatic glucagon-stimulated cyclic AMP signalling via phosphorylation-induced activation of cyclic nucleotide phosphodiesterase 4B. <i>Nature Communications</i> , 2016 , 7, 10856	17.4	83
225	AMP-activated protein kinase and metabolic control. <i>Handbook of Experimental Pharmacology</i> , 2011 , 303-30	3.2	81
224	Coordinated maintenance of muscle cell size control by AMP-activated protein kinase. <i>FASEB Journal</i> , 2010 , 24, 3555-61	0.9	81
223	Compound C inhibits hypoxic activation of HIF-1 independent of AMPK. FEBS Letters, 2007, 581, 5727-37	13.8	81
222	AMPK Re-Activation Suppresses Hepatic Steatosis but its Downregulation Does Not Promote Fatty Liver Development. <i>EBioMedicine</i> , 2018 , 28, 194-209	8.8	79

221	AMPK maintains energy homeostasis and survival in cancer cells via regulating p38/PGC-1Emediated mitochondrial biogenesis. <i>Cell Death Discovery</i> , 2015 , 1, 15063	6.9	79
220	AMPKI deletion exacerbates neointima formation by upregulating Skp2 in vascular smooth muscle cells. <i>Circulation Research</i> , 2011 , 109, 1230-9	15.7	79
219	Metformin suppresses adipogenesis through both AMP-activated protein kinase (AMPK)-dependent and AMPK-independent mechanisms. <i>Molecular and Cellular Endocrinology</i> , 2017 , 440, 57-68	4.4	78
218	Genetic deletion of catalytic subunits of AMP-activated protein kinase increases osteoclasts and reduces bone mass in young adult mice <i>Journal of Biological Chemistry</i> , 2013 , 288, 23432	5.4	78
217	Proteome analysis of erythrocytes lacking AMP-activated protein kinase reveals a role of PAK2 kinase in eryptosis. <i>Journal of Proteome Research</i> , 2011 , 10, 1690-7	5.6	77
216	Crucial role for LKB1 to AMPKalpha2 axis in the regulation of CD36-mediated long-chain fatty acid uptake into cardiomyocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009 , 1791, 212-9	5	77
215	AMP-activated protein kinase pathway and bone metabolism. Journal of Endocrinology, 2012, 212, 277-	9 @ .7	77
214	Stimulation of AMP-activated protein kinase is essential for the induction of drug metabolizing enzymes by phenobarbital in human and mouse liver. <i>Molecular Pharmacology</i> , 2006 , 70, 1925-34	4.3	77
213	AMPKI deficiency amplifies proinflammatory myeloid APC activity and CD40 signaling. <i>Journal of Leukocyte Biology</i> , 2013 , 94, 1113-21	6.5	76
212	Co-activation of AMPK and mTORC1 Induces Cytotoxicity in Acute Myeloid Leukemia. <i>Cell Reports</i> , 2015 , 11, 1446-57	10.6	76
211	Loss of AMP-activated protein kinase-II impairs the insulin-sensitizing effect of calorie restriction in skeletal muscle. <i>Diabetes</i> , 2012 , 61, 1051-61	0.9	75
210	Autophagy controls p38 activation to promote cell survival under genotoxic stress. <i>Journal of Biological Chemistry</i> , 2013 , 288, 1603-11	5.4	75
209	Beyond AICA riboside: in search of new specific AMP-activated protein kinase activators. <i>IUBMB Life</i> , 2009 , 61, 18-26	4.7	75
208	AMP-activated protein kinase phosphorylates and inactivates liver glycogen synthase. <i>Biochemical Journal</i> , 2012 , 443, 193-203	3.8	75
207	Defining the contribution of AMP-activated protein kinase (AMPK) and protein kinase C (PKC) in regulation of glucose uptake by metformin in skeletal muscle cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20088-99	5∙4	74
206	Regulation of hepatic metabolism by AMPK. <i>Journal of Hepatology</i> , 2011 , 54, 827-9	13.4	72
205	AMPKalpha1 deletion shortens erythrocyte life span in mice: role of oxidative stress. <i>Journal of Biological Chemistry</i> , 2010 , 285, 19976-85	5.4	72
204	Cellular energy depletion resets whole-body energy by promoting coactivator-mediated dietary fuel absorption. <i>Cell Metabolism</i> , 2011 , 13, 35-43	24.6	71

(2013-2008)

203	AMPK alpha1 activation is required for stimulation of glucose uptake by twitch contraction, but not by H2O2, in mouse skeletal muscle. <i>PLoS ONE</i> , 2008 , 3, e2102	3.7	71
202	Role of the alpha2-isoform of AMP-activated protein kinase in the metabolic response of the heart to no-flow ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2875	- 83	71
201	AMP-activated protein kinase induces p53 by phosphorylating MDMX and inhibiting its activity. <i>Molecular and Cellular Biology</i> , 2014 , 34, 148-57	4.8	69
200	LKB1 and AMPK regulate synaptic remodeling in old age. <i>Nature Neuroscience</i> , 2014 , 17, 1190-7	25.5	69
199	AMP-activated protein kinase 2 subunit is required for the preservation of hepatic insulin sensitivity by n-3 polyunsaturated fatty acids. <i>Diabetes</i> , 2010 , 59, 2737-46	0.9	68
198	A769662, a novel activator of AMP-activated protein kinase, inhibits non-proteolytic components of the 26S proteasome by an AMPK-independent mechanism. <i>FEBS Letters</i> , 2008 , 582, 2650-4	3.8	68
197	AMP-activated protein kinase modulates tau phosphorylation and tau pathology in vivo. <i>Scientific Reports</i> , 2016 , 6, 26758	4.9	68
196	AMP-activated protein kinase suppresses urate crystal-induced inflammation and transduces colchicine effects in macrophages. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 286-94	2.4	67
195	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. <i>Oncogene</i> , 2018 , 37, 963-970	9.2	65
194	Beyond energy homeostasis: the expanding role of AMP-activated protein kinase in regulating metabolism. <i>Cell Metabolism</i> , 2015 , 21, 799-804	24.6	65
193	Antagonistic control of muscle cell size by AMPK and mTORC1. Cell Cycle, 2011, 10, 2640-6	4.7	65
192	The PRKAA1/AMPKII pathway triggers autophagy during CSF1-induced human monocyte differentiation and is a potential target in CMML. <i>Autophagy</i> , 2015 , 11, 1114-29	10.2	64
191	Dual cardiac contractile effects of the alpha2-AMPK deletion in low-flow ischemia and reperfusion. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H3136-47	5.2	64
190	Leishmania infantum modulates host macrophage mitochondrial metabolism by hijacking the SIRT1-AMPK axis. <i>PLoS Pathogens</i> , 2015 , 11, e1004684	7.6	63
189	The anti-diabetic drug metformin does not affect bone mass in vivo or fracture healing. <i>Osteoporosis International</i> , 2013 , 24, 2659-70	5.3	63
188	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, 10638-52	5.4	63
187	Role of AMP-activated protein kinase in autophagy and proteasome function. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 369, 964-8	3.4	63
186	Inhibition of AMP-activated protein kinase accentuates lipopolysaccharide-induced lung endothelial barrier dysfunction and lung injury in vivo. <i>American Journal of Pathology</i> , 2013 , 182, 1021-3	so ^{5.8}	62

185	Upstream stimulatory factor-2 (USF2) activity is required for glucose stimulation of L-pyruvate kinase promoter activity in single living islet beta-cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2063	6-54 0	62
184	Activation of AMP-activated protein kinase rapidly suppresses multiple pro-inflammatory pathways in adipocytes including IL-1 receptor-associated kinase-4 phosphorylation. <i>Molecular and Cellular Endocrinology</i> , 2017 , 440, 44-56	4.4	61
183	Role of AMPK in UVB-induced DNA damage repair and growth control. <i>Oncogene</i> , 2013 , 32, 2682-9	9.2	61
182	Aberrant endoplasmic reticulum stress in vascular smooth muscle increases vascular contractility and blood pressure in mice deficient of AMP-activated protein kinase-2 in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013 , 33, 595-604	9.4	61
181	AMP activated protein kinase- 2 regulates expression of estrogen-related receptor- 1 metabolic transcription factor related to heart failure development. <i>Hypertension</i> , 2011 , 58, 696-703	8.5	61
180	Inactivation of AMPKI induces asthenozoospermia and alters spermatozoa morphology. <i>Endocrinology</i> , 2012 , 153, 3468-81	4.8	61
179	Inhibition of the AMP-activated protein kinase-2 accentuates agonist-induced vascular smooth muscle contraction and high blood pressure in mice. <i>Hypertension</i> , 2011 , 57, 1010-7	8.5	60
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