

# Grahame Hardie

## List of Publications by Year in Descending Order

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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.

287  
papers

52,457  
citations

112  
h-index

228  
g-index

331  
ext. papers

57,357  
ext. citations

9.7  
avg, IF

8.34  
L-index

#	Paper	IF	Citations
287	Calcium/calmodulin-dependent protein kinase kinase 2 mediates pleiotropic effects of epidermal growth factor in cancer cells.. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2022</b> , 119252	4.9	1
286	Caspase cleavage and nuclear retention of the energy sensor AMPK- $\beta$ during apoptosis.. <i>Cell Reports</i> , <b>2022</b> , 39, 110761	10.6	2
285	AMP-Activated Protein Kinase <b>2021</b> , 90-96		
284	Aldolase is a sensor for both low and high glucose, linking to AMPK and mTORC1. <i>Cell Research</i> , <b>2021</b> , 31, 478-481	24.7	6
283	A New Understanding of Metformin <b>2021</b> ,		0
282	Mitochondria-localized AMPK responds to local energetics and contributes to exercise and energetic stress-induced mitophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	12
281	AMPK and the Need to Breathe and Feed: What's the Matter with Oxygen?. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
280	AMPK activation induces mitophagy and promotes mitochondrial fission while activating TBK1 in a PINK1-Parkin independent manner. <i>FASEB Journal</i> , <b>2020</b> , 34, 6284-6301	0.9	41
279	AMPK and TOR: The Yin and Yang of Cellular Nutrient Sensing and Growth Control. <i>Cell Metabolism</i> , <b>2020</b> , 31, 472-492	24.6	163
278	Mechanism of Activation of AMPK by Cordycepin. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 214-222.e4	8.2	22
277	Glucose Starvation Blocks Translation at Multiple Levels. <i>Cell Metabolism</i> , <b>2020</b> , 31, 217-218	24.6	6
276	AMP-Activated Protein Kinase: Do We Need Activators or Inhibitors to Treat or Prevent Cancer?. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 22,	6.3	11
275	AMP-Activated Protein Kinase: Friend or Foe in Cancer?. <i>Annual Review of Cancer Biology</i> , <b>2020</b> , 4, 1-16	13.3	9
274	AMPK as a direct sensor of long-chain fatty acyl-CoA esters. <i>Nature Metabolism</i> , <b>2020</b> , 2, 799-800	14.6	7
273	Transient Receptor Potential V Channels Are Essential for Glucose Sensing by Aldolase and AMPK. <i>Cell Metabolism</i> , <b>2019</b> , 30, 508-524.e12	24.6	39
272	Phenformin, But Not Metformin, Delays Development of T Cell Acute Lymphoblastic Leukemia/Lymphoma via Cell-Autonomous AMPK Activation. <i>Cell Reports</i> , <b>2019</b> , 27, 690-698.e4	10.6	31
271	Hierarchical activation of compartmentalized pools of AMPK depends on severity of nutrient or energy stress. <i>Cell Research</i> , <b>2019</b> , 29, 460-473	24.7	54

270	The strange case of AMPK and cancer: Dr Jekyll or Mr Hyde?. <i>Open Biology</i> , <b>2019</b> , 9, 190099	7	56
269	Intact Cell Assays to Monitor AMPK and Determine the Contribution of the AMP-Binding or ADaM Sites to Activation. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1732, 239-253	1.4	5
268	Cell-Free Assays to Measure Effects of Regulatory Ligands on AMPK. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1732, 69-86	1.4	5
267	Keeping the home fires burning: AMP-activated protein kinase. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	89
266	Isoform-specific AMPK association with TBC1D1 is reduced by a mutation associated with severe obesity. <i>Biochemical Journal</i> , <b>2018</b> , 475, 2969-2983	3.8	8
265	AMPK - ARE ACTIVATORS OR INHIBITORS REQUIRED FOR CANCER TREATMENT?. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , <b>2018</b> , WCP2018, SY83-1	0	
264	A Novel PRKAG2 Mutation (K475E): Early-Onset Cardiac Phenotype and Targeted Therapy. <i>FASEB Journal</i> , <b>2018</b> , 32, 839.11	0.9	
263	Genotoxic Damage Activates the AMPK- $\beta$ Isoform in the Nucleus via Ca/CaMKK2 Signaling to Enhance Tumor Cell Survival. <i>Molecular Cancer Research</i> , <b>2018</b> , 16, 345-357	6.6	30
262	AMPK: Sensing Glucose as well as Cellular Energy Status. <i>Cell Metabolism</i> , <b>2018</b> , 27, 299-313	24.6	428
261	The LKB1-AMPK- $\beta$ signaling pathway triggers hypoxic pulmonary vasoconstriction downstream of mitochondria. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	17
260	An Oncogenic Role for the Ubiquitin Ligase UBE2O by Targeting AMPK- $\beta$ for Degradation. <i>Cancer Cell</i> , <b>2017</b> , 31, 163-165	24.3	5
259	Mechanisms of Paradoxical Activation of AMPK by the Kinase Inhibitors SU6656 and Sorafenib. <i>Cell Chemical Biology</i> , <b>2017</b> , 24, 813-824.e4	8.2	39
258	A novel, de novo mutation in the gene: infantile-onset phenotype and the signaling pathway involved. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 313, H283-H292	5.2	8
257	AMP-Activated Protein Kinase: An Ubiquitous Signaling Pathway With Key Roles in the Cardiovascular System. <i>Circulation Research</i> , <b>2017</b> , 120, 1825-1841	15.7	116
256	CDK4 Phosphorylates AMPK $\alpha$ to Inhibit Its Activity and Repress Fatty Acid Oxidation. <i>Molecular Cell</i> , <b>2017</b> , 68, 336-349.e6	17.6	38
255	AMP-activated protein kinase - not just an energy sensor. <i>F1000Research</i> , <b>2017</b> , 6, 1724	3.6	57
254	Fructose-1,6-bisphosphate and aldolase mediate glucose sensing by AMPK. <i>Nature</i> , <b>2017</b> , 548, 112-116	50.4	300
253	Targeting an energy sensor to treat diabetes. <i>Science</i> , <b>2017</b> , 357, 455-456	33.3	13

252	The mechanisms of action of metformin. <i>Diabetologia</i> , <b>2017</b> , 60, 1577-1585	10.3	870
251	AMP-activated protein kinase inhibits Kv 1.5 channel currents of pulmonary arterial myocytes in response to hypoxia and inhibition of mitochondrial oxidative phosphorylation. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4901-15	3.9	21
250	Differential regulation by AMP and ADP of AMPK complexes containing different $\beta$ subunit isoforms. <i>Biochemical Journal</i> , <b>2016</b> , 473, 189-99	3.8	108
249	AMP-activated protein kinase: a cellular energy sensor that comes in 12 flavours. <i>FEBS Journal</i> , <b>2016</b> , 283, 2987-3001	5.7	204
248	Regulation of AMP-activated protein kinase by natural and synthetic activators. <i>Acta Pharmaceutica Sinica B</i> , <b>2016</b> , 6, 1-19	15.5	103
247	AMPK: An Energy-Sensing Pathway with Multiple Inputs and Outputs. <i>Trends in Cell Biology</i> , <b>2016</b> , 26, 190-201	18.3	508
246	Bitter Melon ( <i>Momordica charantia</i> ) Extract Inhibits Tumorigenicity and Overcomes Cisplatin-Resistance in Ovarian Cancer Cells Through Targeting AMPK Signaling Cascade. <i>Integrative Cancer Therapies</i> , <b>2016</b> , 15, 376-89	3	24
245	The Na <sup>+</sup> /Glucose Cotransporter Inhibitor Canagliflozin Activates AMPK by Inhibiting Mitochondrial Function and Increasing Cellular AMP Levels. <i>Diabetes</i> , <b>2016</b> , 65, 2784-94	0.9	190
244	AMPK Causes Cell Cycle Arrest in LKB1-Deficient Cells via Activation of CAMKK2. <i>Molecular Cancer Research</i> , <b>2016</b> , 14, 683-95	6.6	46
243	Molecular Pathways: Is AMPK a Friend or a Foe in Cancer?. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 3836-40	12.9	105
242	AMPK: positive and negative regulation, and its role in whole-body energy homeostasis. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 33, 1-7	9	306
241	PT-1 selectively activates AMPK- $\alpha$ complexes in mouse skeletal muscle, but activates all three $\alpha$ subunit complexes in cultured human cells by inhibiting the respiratory chain. <i>Biochemical Journal</i> , <b>2015</b> , 467, 461-72	3.8	41
240	AMPK Dilates Resistance Arteries via Activation of SERCA and BKCa Channels in Smooth Muscle. <i>Hypertension</i> , <b>2015</b> , 66, 108-16	8.5	40
239	Methotrexate promotes glucose uptake and lipid oxidation in skeletal muscle via AMPK activation. <i>Diabetes</i> , <b>2015</b> , 64, 360-9	0.9	52
238	AMPK--sensing energy while talking to other signaling pathways. <i>Cell Metabolism</i> , <b>2014</b> , 20, 939-52	24.6	382
237	AMP-activated protein kinase: a key regulator of energy balance with many roles in human disease. <i>Journal of Internal Medicine</i> , <b>2014</b> , 276, 543-59	10.8	180
236	A new protein kinase cascade. <i>Nature Reviews Molecular Cell Biology</i> , <b>2014</b> , 15, 223	48.7	3
235	Oxidative stress activates AMPK in cultured cells primarily by increasing cellular AMP and/or ADP. <i>FEBS Letters</i> , <b>2014</b> , 588, 3361-6	3.8	77

234	Mechanism of action of compound-13: an $\alpha$ -selective small molecule activator of AMPK. <i>Chemistry and Biology</i> , <b>2014</b> , 21, 866-79		87
233	AMP-activated protein kinase: maintaining energy homeostasis at the cellular and whole-body levels. <i>Annual Review of Nutrition</i> , <b>2014</b> , 34, 31-55	9.9	159
232	AMPK: a cellular energy sensor primarily regulated by AMP. <i>Biochemical Society Transactions</i> , <b>2014</b> , 42, 71-5	5.1	100
231	Phosphorylation by Akt within the ST loop of AMPK- $\alpha$ down-regulates its activation in tumour cells. <i>Biochemical Journal</i> , <b>2014</b> , 459, 275-87	3.8	137
230	AMPK: regulating energy balance at the cellular and whole body levels. <i>Physiology</i> , <b>2014</b> , 29, 99-107	9.8	152
229	Changes in mTOR/4-EBP1 pathway induced by a novel mutation in PRKAG2 gene (864.7). <i>FASEB Journal</i> , <b>2014</b> , 28, 864.7	0.9	
228	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , <b>2013</b> , 19, 1649-54	50.5	503
227	Metabolism of inflammation limited by AMPK and pseudo-starvation. <i>Nature</i> , <b>2013</b> , 493, 346-55	50.4	765
226	The LKB1-AMPK pathway-friend or foe in cancer?. <i>Cancer Cell</i> , <b>2013</b> , 23, 131-2	24.3	53
225	AMP is a true physiological regulator of AMP-activated protein kinase by both allosteric activation and enhancing net phosphorylation. <i>Cell Metabolism</i> , <b>2013</b> , 18, 556-66	24.6	336
224	AMPK: mediating the metabolic effects of salicylate-based drugs?. <i>Trends in Endocrinology and Metabolism</i> , <b>2013</b> , 24, 481-7	8.8	58
223	Metformin-acting through cyclic AMP as well as AMP?. <i>Cell Metabolism</i> , <b>2013</b> , 17, 313-4	24.6	13
222	LKB1 and AMPK and the cancer-metabolism link - ten years after. <i>BMC Biology</i> , <b>2013</b> , 11, 36	7.3	225
221	AMPK: opposing the metabolic changes in both tumour cells and inflammatory cells?. <i>Biochemical Society Transactions</i> , <b>2013</b> , 41, 687-93	5.1	40
220	AMPK: a target for drugs and natural products with effects on both diabetes and cancer. <i>Diabetes</i> , <b>2013</b> , 62, 2164-72	0.9	313
219	Glycogen content regulates peroxisome proliferator activated receptor- $\alpha$ (PPAR- $\alpha$ ) activity in rat skeletal muscle. <i>PLoS ONE</i> , <b>2013</b> , 8, e77200	3.7	33
218	AMP-activated protein kinase: a target for drugs both ancient and modern. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 1222-36		280
217	Ion channel regulation by the LKB1-AMPK signalling pathway: the key to carotid body activation by hypoxia and metabolic homeostasis at the whole body level. <i>Advances in Experimental Medicine and Biology</i> , <b>2012</b> , 758, 81-90	3.6	9

216	AMPK promotes p53 acetylation via phosphorylation and inactivation of SIRT1 in liver cancer cells. <i>Cancer Research</i> , <b>2012</b> , 72, 4394-404	10.1	152
215	The ancient drug salicylate directly activates AMP-activated protein kinase. <i>Science</i> , <b>2012</b> , 336, 918-22	33.3	539
214	Organismal carbohydrate and lipid homeostasis. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2012</b> , 4,	10.2	43
213	AMPK: a nutrient and energy sensor that maintains energy homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 251-62	48.7	2712
212	The role of ATM in response to metformin treatment and activation of AMPK. <i>Nature Genetics</i> , <b>2012</b> , 44, 361-2	36.3	40
211	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> , <b>2012</b> , 287, 20088-99	5.4	74
210	Ion channel regulation by the Lkb1-AMPK signalling pathway: the key to carotid body activation by hypoxia and metabolic homeostasis at the whole body level. <i>FASEB Journal</i> , <b>2012</b> , 26, 897.4	0.9	
209	AMP-activated protein kinase: a cellular energy sensor with a key role in metabolic disorders and in cancer. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1-13	5.1	131
208	AMP-activated protein kinase: an energy sensor that regulates all aspects of cell function. <i>Genes and Development</i> , <b>2011</b> , 25, 1895-908	12.6	1056
207	Cell biology. Why starving cells eat themselves. <i>Science</i> , <b>2011</b> , 331, 410-1	33.3	16
206	Hypoxic pulmonary vasoconstriction: mechanisms of oxygen-sensing. <i>Current Opinion in Anaesthesiology</i> , <b>2011</b> , 24, 13-20	2.9	49
205	Counter-modulation of fatty acid-induced pro-inflammatory nuclear factor $\kappa$ B signalling in rat skeletal muscle cells by AMP-activated protein kinase. <i>Biochemical Journal</i> , <b>2011</b> , 435, 463-74	3.8	59
204	Energy sensing by the AMP-activated protein kinase and its effects on muscle metabolism. <i>Proceedings of the Nutrition Society</i> , <b>2011</b> , 70, 92-9	2.9	99
203	Common variants near ATM are associated with glycemic response to metformin in type 2 diabetes. <i>Nature Genetics</i> , <b>2011</b> , 43, 117-20	36.3	319
202	AMPK and autophagy get connected. <i>EMBO Journal</i> , <b>2011</b> , 30, 634-5	13	148
201	AMP-activated protein kinase: also regulated by ADP?. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 470-7	10.3	132
200	Evidence for biological effects of metformin in operable breast cancer: a pre-operative, window-of-opportunity, randomized trial. <i>Breast Cancer Research and Treatment</i> , <b>2011</b> , 128, 783-94	4.4	217
199	Sensing of energy and nutrients by AMP-activated protein kinase. <i>American Journal of Clinical Nutrition</i> , <b>2011</b> , 93, 891S-6	7	263

198	Intracellular ATP influences synaptic plasticity in area CA1 of rat hippocampus via metabolism to adenosine and activity-dependent activation of adenosine A1 receptors. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 6221-34	6.6	44
197	Phosphorylation of the voltage-gated potassium channel Kv2.1 by AMP-activated protein kinase regulates membrane excitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18132-7	11.5	90
196	Adenosine monophosphate-activated protein kinase: a central regulator of metabolism with roles in diabetes, cancer, and viral infection. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2011</b> , 76, 155-64	3.9	42
195	Selective expression in carotid body type I cells of a single splice variant of the large conductance calcium- and voltage-activated potassium channel confers regulation by AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 11929-36	5.4	37
194	AMPK and autophagy get connected. <i>EMBO Journal</i> , <b>2011</b> , 30, 2511-2511	13	3
193	Glycogen depletion increases peroxisome proliferator activated receptor- $\alpha$ activity following acute exercise. <i>FASEB Journal</i> , <b>2011</b> , 25, 1059.8	0.9	
192	The laforin-malin complex, involved in Lafora disease, promotes the incorporation of K63-linked ubiquitin chains into AMP-activated protein kinase beta subunits. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 2578-88	3.5	41
191	Prevention of high-fat diet-induced muscular lipid accumulation in rats by alpha lipoic acid is not mediated by AMPK activation. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 352-9	6.3	32
190	Enhanced hepatitis C virus genome replication and lipid accumulation mediated by inhibition of AMP-activated protein kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 11549-54	11.5	109
189	Cell-wide analysis of secretory granule dynamics in three dimensions in living pancreatic beta-cells: evidence against a role for AMPK-dependent phosphorylation of KLC1 at Ser517/Ser520 in glucose-stimulated insulin granule movement. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 205-8	5.1	7
188	PGC-1 $\alpha$ increases PDH content but does not change acute PDH regulation in mouse skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 299, R1350-9	3.2	23
187	Hot stuff: thyroid hormones and AMPK. <i>Cell Research</i> , <b>2010</b> , 20, 1282-4	24.7	4
186	Use of cells expressing gamma subunit variants to identify diverse mechanisms of AMPK activation. <i>Cell Metabolism</i> , <b>2010</b> , 11, 554-65	24.6	565
185	AMP-Activated Protein Kinase <b>2010</b> , 551-557		2
184	Transcription. Targeting the core of transcription. <i>Science</i> , <b>2010</b> , 329, 1158-9	33.3	7
183	Calmodulin-dependent protein kinase kinase-beta activates AMPK without forming a stable complex: synergistic effects of Ca <sup>2+</sup> and AMP. <i>Biochemical Journal</i> , <b>2010</b> , 426, 109-18	3.8	99
182	Development of protein kinase activators: AMPK as a target in metabolic disorders and cancer. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2010</b> , 1804, 581-91	4	274
181	C-terminal phosphorylation of LKB1 is not required for regulation of AMP-activated protein kinase, BRSK1, BRSK2, or cell cycle arrest. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 77-84	5.4	51

180	Control of insulin granule dynamics by AMPK dependent KLC1 phosphorylation. <i>Islets</i> , <b>2009</b> , 1, 198-209	2	14
179	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E665-75	6	123
178	Blunting of AICAR-induced human skeletal muscle glucose uptake in type 2 diabetes is dependent on age rather than diabetic status. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 296, E1042-8	6	26
177	SnRK1 (SNF1-related kinase 1) has a central role in sugar and ABA signalling in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>2009</b> , 59, 316-28	6.9	217
176	Ion channel regulation by AMPK: the route of hypoxia-response coupling in the carotid body and pulmonary artery. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1177, 89-100	6.5	38
175	The glycogen-binding domain on the AMPK beta subunit allows the kinase to act as a glycogen sensor. <i>Cell Metabolism</i> , <b>2009</b> , 9, 23-34	24.6	322
174	AMPK: a key regulator of energy balance in the single cell and the whole organism. <i>International Journal of Obesity</i> , <b>2008</b> , 32 Suppl 4, S7-12	5.5	501
173	Normal hypertrophy accompanied by phosphorylation and activation of AMP-activated protein kinase alpha1 following overload in LKB1 knockout mice. <i>Journal of Physiology</i> , <b>2008</b> , 586, 1731-41	3.9	80
172	Role of AMP-activated protein kinase in the metabolic syndrome and in heart disease. <i>FEBS Letters</i> , <b>2008</b> , 582, 81-9	3.8	156
171	AMP-activated protein kinase and hypoxic pulmonary vasoconstriction. <i>European Journal of Pharmacology</i> , <b>2008</b> , 595, 39-43	5.3	35
170	Key roles for AMP-activated protein kinase in the function of the carotid body?. <i>Advances in Experimental Medicine and Biology</i> , <b>2008</b> , 605, 63-8	3.6	5
169	AMPK and Raptor: matching cell growth to energy supply. <i>Molecular Cell</i> , <b>2008</b> , 30, 263-5	17.6	106
168	A novel short splice variant of the tumour suppressor LKB1 is required for spermiogenesis. <i>Biochemical Journal</i> , <b>2008</b> , 416, 1-14	3.8	66
167	AMPK - the fuel gauge of the eukaryotic cell. <i>FASEB Journal</i> , <b>2008</b> , 22, 114.1	0.9	
166	AMP-activated protein kinase in metabolic control and insulin signaling. <i>Circulation Research</i> , <b>2007</b> , 100, 328-41	15.7	997
165	De-phosphorylation of MyoD is linking nerve-evoked activity to fast myosin heavy chain expression in rodent adult skeletal muscle. <i>Journal of Physiology</i> , <b>2007</b> , 584, 637-50	3.9	46
164	AMP-activated/SNF1 protein kinases: conserved guardians of cellular energy. <i>Nature Reviews Molecular Cell Biology</i> , <b>2007</b> , 8, 774-85	48.7	1704
163	Regulation of AMP-activated protein kinase by a pseudosubstrate sequence on the gamma subunit. <i>EMBO Journal</i> , <b>2007</b> , 26, 806-15	13	41



162	Age-related HMG-CoA reductase deregulation depends on ROS-induced p38 activation. <i>Mechanisms of Ageing and Development</i> , <b>2007</b> , 128, 688-95	5.6	43
161	How I became a biochemist. <i>IUBMB Life</i> , <b>2007</b> , 59, 793-6	4.7	
160	Mechanism of action of A-769662, a valuable tool for activation of AMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 32549-60	5.4	329
159	5-aminoimidazole-4-carboxamide 1-beta-D-ribofuranoside acutely stimulates skeletal muscle 2-deoxyglucose uptake in healthy men. <i>Diabetes</i> , <b>2007</b> , 56, 2078-84	0.9	86
158	Fatal infantile cardiac glycogenosis with phosphorylase kinase deficiency and a mutation in the gamma2-subunit of AMP-activated protein kinase. <i>Pediatric Research</i> , <b>2007</b> , 62, 499-504	3.2	47
157	AMP-activated protein kinase mediates carotid body excitation by hypoxia. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 8092-8	5.4	115
156	Biochemistry. Balancing cellular energy. <i>Science</i> , <b>2007</b> , 315, 1671-2	33.3	36
155	A conserved sequence immediately N-terminal to the Bateman domains in AMP-activated protein kinase gamma subunits is required for the interaction with the beta subunits. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 16117-25	5.4	23
154	Regulation of multisite phosphorylation and 14-3-3 binding of AS160 in response to IGF-1, EGF, PMA and AICAR. <i>Biochemical Journal</i> , <b>2007</b> , 407, 231-41	3.8	141
153	AMP-activated protein kinase mediates VEGF-stimulated endothelial NO production. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 354, 1084-8	3.4	76
152	Aging-associated reductions in AMP-activated protein kinase activity and mitochondrial biogenesis. <i>Cell Metabolism</i> , <b>2007</b> , 5, 151-6	24.6	391
151	AMP-activated protein kinase as a drug target. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2007</b> , 47, 185-210	17.9	345
150	Phenformin and AICAR decrease transepithelial Na <sup>+</sup> transport across human H441 lung epithelial cells by different mechanisms. <i>FASEB Journal</i> , <b>2007</b> , 21, A954	0.9	
149	Sex differences in hormone-sensitive lipase expression, activity, and phosphorylation in skeletal muscle at rest and during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2006</b> , 291, E1106-14	6	74
148	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca <sup>2+</sup> in T lymphocytes. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 1665-70	16.6	266
147	AMPK: a key sensor of fuel and energy status in skeletal muscle. <i>Physiology</i> , <b>2006</b> , 21, 48-60	9.8	364
146	Neither LKB1 nor AMPK are the direct targets of metformin. <i>Gastroenterology</i> , <b>2006</b> , 131, 973; author reply 974-5	13.3	87
145	AMP-activated protein kinase--development of the energy sensor concept. <i>Journal of Physiology</i> , <b>2006</b> , 574, 7-15	3.9	604

144	Regulation of the energy sensor AMP-activated protein kinase by antigen receptor and Ca <sup>2+</sup> in T lymphocytes. <i>Journal of Cell Biology</i> , <b>2006</b> , 174, i4-i4	7.3	
143	Does AMP-activated protein kinase couple inhibition of mitochondrial oxidative phosphorylation by hypoxia to pulmonary artery constriction?. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 580, 147-54; discussion 351-9	3.6	9
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7	Purification and physicochemical properties of fatty acid synthetase and acetyl-CoA carboxylase from lactating rabbit mammary gland. <i>FEBS Journal</i> , <b>1978</b> , 92, 25-34		50
6	The regulation of fatty acid biosynthesis: simple procedure for the purification of acetyl CoA carboxylase from lactating rabbit mammary gland, and its phosphorylation by endogenous cyclic AMP-dependent and -independent protein kinase activities. <i>FEBS Letters</i> , <b>1978</b> , 91, 1-7	3.8	65
5	Mammalian fatty acid synthetase: evidence for subunit identity and specific removal of the thioesterase component using elastase digestion. <i>FEBS Letters</i> , <b>1978</b> , 94, 33-7	3.8	33
4	Endogenous phosphorylation of microsomal proteins in bovine corpus luteum. Tenfold activation by adenosine 3P5Pcyclic monophosphate. <i>Biochemical Journal</i> , <b>1977</b> , 164, 213-21	3.8	9
3	Signaling by AMP-activated Protein Kinase303-338		5
2	AMP-activated Protein Kinase (AMPK)		1
1	AMP-Activated Protein Kinase Couples Mitochondrial Inhibition by Hypoxia to Cell-Specific Ca <sup>2+</sup> Signalling Mechanisms in Oxygensensing Cells. <i>Novartis Foundation Symposium</i> ,234-258		12

