

Gregory R Steinberg

List of Publications by Citations

Source: <https://exaly.com/author-pdf/203479/gregory-r-steinberg-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

198
papers

16,199
citations

67
h-index

124
g-index

212
ext. papers

19,224
ext. citations

9.1
avg, IF

6.86
L-index

#	Paper	IF	Citations
198	AMPK in Health and Disease. <i>Physiological Reviews</i> , 2009 , 89, 1025-78	47.9	1232
197	Adipose tissue as an endocrine organ. <i>Molecular and Cellular Endocrinology</i> , 2010 , 316, 129-39	4.4	1139
196	Interleukin-6 increases insulin-stimulated glucose disposal in humans and glucose uptake and fatty acid oxidation in vitro via AMP-activated protein kinase. <i>Diabetes</i> , 2006 , 55, 2688-97	0.9	573
195	The ancient drug salicylate directly activates AMP-activated protein kinase. <i>Science</i> , 2012 , 336, 918-22	33.3	539
194	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013 , 19, 1649-54	50.5	503
193	Tumor necrosis factor alpha-induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. <i>Cell Metabolism</i> , 2006 , 4, 465-74	24.6	331
192	AMP-activated protein kinase (AMPK) beta1beta2 muscle null mice reveal an essential role for AMPK in maintaining mitochondrial content and glucose uptake during exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16092-7	11.5	313
191	Triacylglycerol accumulation in human obesity and type 2 diabetes is associated with increased rates of skeletal muscle fatty acid transport and increased sarcolemmal FAT/CD36. <i>FASEB Journal</i> , 2004 , 18, 1144-6	0.9	311
190	Inhibiting peripheral serotonin synthesis reduces obesity and metabolic dysfunction by promoting brown adipose tissue thermogenesis. <i>Nature Medicine</i> , 2015 , 21, 166-72	50.5	288
189	AMPK as a Therapeutic Target for Treating Metabolic Diseases. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 545-560	8.8	282
188	High-density lipoprotein modulates glucose metabolism in patients with type 2 diabetes mellitus. <i>Circulation</i> , 2009 , 119, 2103-11	16.7	281
187	Treatment of nonalcoholic fatty liver disease: role of AMPK. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E730-E740	6	243
186	AMPK regulation of fatty acid metabolism and mitochondrial biogenesis: implications for obesity. <i>Molecular and Cellular Endocrinology</i> , 2013 , 366, 135-51	4.4	242
185	MicroRNA-33-dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4334-48	15.9	241
184	Hematopoietic AMPK β reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011 , 121, 4903-15	15.9	238
183	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. <i>Nature Medicine</i> , 2006 , 12, 541-8	50.5	226
182	AMP-activated protein kinase: the current landscape for drug development. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 527-551	64.1	210

181	Thienopyridone drugs are selective activators of AMP-activated protein kinase beta1-containing complexes. <i>Chemistry and Biology</i> , 2008 , 15, 1220-30		201
180	Energy-stress-mediated AMPK activation inhibits ferroptosis. <i>Nature Cell Biology</i> , 2020 , 22, 225-234	23.4	195
179	The Na ⁺ /Glucose Cotransporter Inhibitor Canagliflozin Activates AMPK by Inhibiting Mitochondrial Function and Increasing Cellular AMP Levels. <i>Diabetes</i> , 2016 , 65, 2784-94	0.9	190
178	Lack of Adipocyte AMPK Exacerbates Insulin Resistance and Hepatic Steatosis through Brown and Beige Adipose Tissue Function. <i>Cell Metabolism</i> , 2016 , 24, 118-29	24.6	182
177	NOD1 activators link innate immunity to insulin resistance. <i>Diabetes</i> , 2011 , 60, 2206-15	0.9	176
176	Regulation of HSL serine phosphorylation in skeletal muscle and adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 290, E500-8	6	167
175	Liver-specific ATP-citrate lyase inhibition by bempedoic acid decreases LDL-C and attenuates atherosclerosis. <i>Nature Communications</i> , 2016 , 7, 13457	17.4	161
174	Impaired activation of AMP-kinase and fatty acid oxidation by globular adiponectin in cultured human skeletal muscle of obese type 2 diabetics. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 3665-72	5.6	148
173	AMP-activated protein kinase (AMPK) beyond metabolism: a novel genomic stress sensor participating in the DNA damage response pathway. <i>Cancer Biology and Therapy</i> , 2014 , 15, 156-69	4.6	142
172	AMPK activation of muscle autophagy prevents fasting-induced hypoglycemia and myopathy during aging. <i>Cell Metabolism</i> , 2015 , 21, 883-90	24.6	141
171	Leptin increases FA oxidation in lean but not obese human skeletal muscle: evidence of peripheral leptin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 283, E187-92	6	137
170	AMPK beta1 deletion reduces appetite, preventing obesity and hepatic insulin resistance. <i>Journal of Biological Chemistry</i> , 2010 , 285, 115-22	5.4	132
169	High-intensity exercise training increases the diversity and metabolic capacity of the mouse distal gut microbiota during diet-induced obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 310, E982-93	6	130
168	Whole body deletion of AMP-activated protein kinase {beta}2 reduces muscle AMPK activity and exercise capacity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37198-209	5.4	129
167	Inhibition of Acetyl-CoA Carboxylase by Phosphorylation or the Inhibitor ND-654 Suppresses Lipogenesis and Hepatocellular Carcinoma. <i>Cell Metabolism</i> , 2019 , 29, 174-182.e5	24.6	127
166	Regulation and function of triacylglycerol lipases in cellular metabolism. <i>Biochemical Journal</i> , 2008 , 414, 313-25	3.8	124
165	Adipocyte triglyceride lipase expression in human obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 293, E958-64	6	123
164	Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. <i>Nature Medicine</i> , 2018 , 24, 1384-1394	50.5	118

163	Defective NOD2 peptidoglycan sensing promotes diet-induced inflammation, dysbiosis, and insulin resistance. <i>EMBO Molecular Medicine</i> , 2015 , 7, 259-74	12	118
162	Small molecule drug A-769662 and AMP synergistically activate naive AMPK independent of upstream kinase signaling. <i>Chemistry and Biology</i> , 2014 , 21, 619-27		112
161	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
160	AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. <i>Journal of Physiology</i> , 2008 , 586, 5819-31	3.9	107
159	Deletion of skeletal muscle SOCS3 prevents insulin resistance in obesity. <i>Diabetes</i> , 2013 , 62, 56-64	0.9	106
158	Inflammation in obesity is the common link between defects in fatty acid metabolism and insulin resistance. <i>Cell Cycle</i> , 2007 , 6, 888-94	4.7	105
157	Evidence for the role of AMPK in regulating PGC-1 alpha expression and mitochondrial proteins in mouse epididymal adipose tissue. <i>Obesity</i> , 2014 , 22, 730-8	8	104
156	Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. <i>Biochemical Journal</i> , 2015 , 468, 125-32	3.8	103
155	Skeletal muscle glucose uptake during contraction is regulated by nitric oxide and ROS independently of AMPK. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E577-85	6	100
154	Emerging Roles for Serotonin in Regulating Metabolism: New Implications for an Ancient Molecule. <i>Endocrine Reviews</i> , 2019 , 40, 1092-1107	27.2	99
153	Muramyl Dipeptide-Based Postbiotics Mitigate Obesity-Induced Insulin Resistance via IRF4. <i>Cell Metabolism</i> , 2017 , 25, 1063-1074.e3	24.6	97
152	AMPK expression and phosphorylation are increased in rodent muscle after chronic leptin treatment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 284, E648-54	6	94
151	Subcellular localization of cyclic AMP-responsive element binding protein-regulated transcription coactivator 2 provides a link between obesity and breast cancer in postmenopausal women. <i>Cancer Research</i> , 2009 , 69, 5392-9	10.1	93
150	The suppressor of cytokine signaling 3 inhibits leptin activation of AMP-kinase in cultured skeletal muscle of obese humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006 , 91, 3592-7	5.6	89
149	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014 , 57, 1693-702	10.3	88
148	Mechanism of action of compound-13: an α -selective small molecule activator of AMPK. <i>Chemistry and Biology</i> , 2014 , 21, 866-79		87
147	Fluvastatin causes NLRP3 inflammasome-mediated adipose insulin resistance. <i>Diabetes</i> , 2014 , 63, 3742-70.9	7.9	86
146	Ciliary neurotrophic factor suppresses hypothalamic AMP-kinase signaling in leptin-resistant obese mice. <i>Endocrinology</i> , 2006 , 147, 3906-14	4.8	86

145	AMPK promotes macrophage fatty acid oxidative metabolism to mitigate inflammation: implications for diabetes and cardiovascular disease. <i>Immunology and Cell Biology</i> , 2014 , 92, 340-5	5	83
144	Metformin-induced increases in GDF15 are important for suppressing appetite and promoting weight loss. <i>Nature Metabolism</i> , 2019 , 1, 1202-1208	14.6	80
143	Fatty acids stimulate AMP-activated protein kinase and enhance fatty acid oxidation in L6 myotubes. <i>Journal of Physiology</i> , 2006 , 574, 139-47	3.9	78
142	The diabetes medication Canagliflozin reduces cancer cell proliferation by inhibiting mitochondrial complex-I supported respiration. <i>Molecular Metabolism</i> , 2016 , 5, 1048-1056	8.8	78
141	Liver-specific suppressor of cytokine signaling-3 deletion in mice enhances hepatic insulin sensitivity and lipogenesis resulting in fatty liver and obesity. <i>Hepatology</i> , 2010 , 52, 1632-42	11.2	77
140	AMP-activated protein kinase is not down-regulated in human skeletal muscle of obese females. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 4575-80	5.6	77
139	Exercise-stimulated interleukin-15 is controlled by AMPK and regulates skin metabolism and aging. <i>Aging Cell</i> , 2015 , 14, 625-34	9.9	75
138	Reduced plasma FFA availability increases net triacylglycerol degradation, but not GPAT or HSL activity, in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 287, E120-7	6	73
137	Fatty acid oxidation and triacylglycerol hydrolysis are enhanced after chronic leptin treatment in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 282, E593-600	6	73
136	Emerging Role of AMPK in Brown and Beige Adipose Tissue (BAT): Implications for Obesity, Insulin Resistance, and Type 2 Diabetes. <i>Current Diabetes Reports</i> , 2018 , 18, 80	5.6	72
135	Chronic leptin administration decreases fatty acid uptake and fatty acid transporters in rat skeletal muscle. <i>Journal of Biological Chemistry</i> , 2002 , 277, 8854-60	5.4	71
134	Activation of Liver AMPK with PF-06409577 Corrects NAFLD and Lowers Cholesterol in Rodent and Primate Preclinical Models. <i>EBioMedicine</i> , 2018 , 31, 122-132	8.8	69
133	A standardized infrared imaging technique that specifically detects UCP1-mediated thermogenesis in vivo. <i>Molecular Metabolism</i> , 2014 , 3, 490-4	8.8	69
132	Reduced glycogen availability is associated with increased AMPKalpha2 activity, nuclear AMPKalpha2 protein abundance, and GLUT4 mRNA expression in contracting human skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2006 , 31, 302-12	3	69
131	High intensity interval training improves liver and adipose tissue insulin sensitivity. <i>Molecular Metabolism</i> , 2015 , 4, 903-15	8.8	65
130	Beta-adrenergic stimulation of skeletal muscle HSL can be overridden by AMPK signaling. <i>FASEB Journal</i> , 2004 , 18, 1445-6	0.9	64
129	Salicylate activates AMPK and synergizes with metformin to reduce the survival of prostate and lung cancer cells ex vivo through inhibition of de novo lipogenesis. <i>Biochemical Journal</i> , 2015 , 469, 177-87	3.8	63
128	An AMP-activated protein kinase-stabilizing peptide ameliorates adipose tissue wasting in cancer cachexia in mice. <i>Nature Medicine</i> , 2016 , 22, 1120-1130	50.5	63

127	SIRT1 takes a backseat to AMPK in the regulation of insulin sensitivity by resveratrol. <i>Diabetes</i> , 2010 , 59, 551-3	0.9	63
126	Macrophage deletion of SOCS1 increases sensitivity to LPS and palmitic acid and results in systemic inflammation and hepatic insulin resistance. <i>Diabetes</i> , 2011 , 60, 2023-31	0.9	63
125	Enhanced activation of cellular AMPK by dual-small molecule treatment: AICAR and A769662. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E688-96	6	62
124	Suppressor of cytokine signalling (SOCS) proteins as guardians of inflammatory responses critical for regulating insulin sensitivity. <i>Biochemical Journal</i> , 2014 , 461, 177-88	3.8	62
123	PGC-1alpha gene expression is down-regulated by Akt- mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. <i>FASEB Journal</i> , 2005 , 19, 2072-4	0.9	61
122	Growth Differentiation Factor 15 as a Novel Biomarker for Metformin. <i>Diabetes Care</i> , 2017 , 40, 280-283	14.6	60
121	AMPK-dependent hormonal regulation of whole-body energy metabolism. <i>Acta Physiologica</i> , 2009 , 196, 115-27	5.6	60
120	Contraction-induced skeletal muscle FAT/CD36 trafficking and FA uptake is AMPK independent. <i>Journal of Lipid Research</i> , 2011 , 52, 699-711	6.3	59
119	Association of Metformin with Breast Cancer Incidence and Mortality in Patients with Type II Diabetes: A GRADE-Assessed Systematic Review and Meta-analysis. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018 , 27, 627-635	4	58
118	AMPK: mediating the metabolic effects of salicylate-based drugs?. <i>Trends in Endocrinology and Metabolism</i> , 2013 , 24, 481-7	8.8	58
117	The AMP-activated protein kinase: role in regulation of skeletal muscle metabolism and insulin sensitivity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2007 , 7, 519-26	3.2	58
116	AMP-activated protein kinase--the fat controller of the energy railroad. <i>Canadian Journal of Physiology and Pharmacology</i> , 2006 , 84, 655-65	2.4	57
115	Failed Recovery of Glycemic Control and Myofibrillar Protein Synthesis With 2 wk of Physical Inactivity in Overweight, Prediabetic Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018 , 73, 1070-1077	6.4	56
114	Endurance training partially reverses dietary-induced leptin resistance in rodent skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004 , 286, E57-63	6	56
113	Endurance training modulates intramyocellular lipid compartmentalization and morphology in skeletal muscle of lean and obese women. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013 , 98, 4852-62	5.6	55
112	The role of AMPK in controlling metabolism and mitochondrial biogenesis during exercise. <i>Experimental Physiology</i> , 2014 , 99, 1581-5	2.4	54
111	Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPARalpha and UCP2 expression in rats. <i>Journal of Endocrinology</i> , 2008 , 198, 367-74	4.7	53
110	Immunometabolism of AMPK in insulin resistance and atherosclerosis. <i>Molecular and Cellular Endocrinology</i> , 2013 , 366, 224-34	4.4	52

109	The gut microbiome regulates host glucose homeostasis via peripheral serotonin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 19802-19804	11.5	49
108	PPAR α activation attenuates hepatic steatosis in Ldlr $^{-/-}$ mice by enhanced fat oxidation, reduced lipogenesis, and improved insulin sensitivity. <i>Journal of Lipid Research</i> , 2014 , 55, 1254-66	6.3	49
107	Deficiency in interferon-gamma results in reduced body weight and better glucose tolerance in mice. <i>Endocrinology</i> , 2011 , 152, 3690-9	4.8	48
106	AMPK deficiency in cardiac muscle results in dilated cardiomyopathy in the absence of changes in energy metabolism. <i>Cardiovascular Research</i> , 2015 , 107, 235-45	9.9	47
105	Inhibition of AMP-Activated Protein Kinase at the Allosteric Drug-Binding Site Promotes Islet Insulin Release. <i>Chemistry and Biology</i> , 2015 , 22, 705-11		45
104	The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. <i>Nature Communications</i> , 2017 , 8, 571	17.4	45
103	Metformin-induced ablation of microRNA 21-5p releases Sestrin-1 and CAB39L antitumoral activities. <i>Cell Discovery</i> , 2017 , 3, 17022	22.3	44
102	Targeting ATP-Citrate Lyase in Hyperlipidemia and Metabolic Disorders. <i>Trends in Molecular Medicine</i> , 2017 , 23, 1047-1063	11.5	41
101	Salicylate improves macrophage cholesterol homeostasis via activation of Ampk. <i>Journal of Lipid Research</i> , 2015 , 56, 1025-33	6.3	41
100	Salsalate (Salicylate) Uncouples Mitochondria, Improves Glucose Homeostasis, and Reduces Liver Lipids Independent of AMPK- β . <i>Diabetes</i> , 2016 , 65, 3352-3361	0.9	41
99	Bradykinin stimulates endothelial cell fatty acid oxidation by CaMKK-dependent activation of AMPK. <i>Atherosclerosis</i> , 2008 , 200, 28-36	3.1	41
98	Recent advances in the detection of brown adipose tissue in adult humans: a review. <i>Clinical Science</i> , 2018 , 132, 1039-1054	6.5	41
97	Ciliary neurotrophic factor stimulates muscle glucose uptake by a PI3-kinase-dependent pathway that is impaired with obesity. <i>Diabetes</i> , 2009 , 58, 829-39	0.9	40
96	Exercise reverses age-related vulnerability of the retina to injury by preventing complement-mediated synapse elimination via a BDNF-dependent pathway. <i>Aging Cell</i> , 2016 , 15, 1082-1091	10.9	39
95	Reduced Socs3 expression in adipose tissue protects female mice against obesity-induced insulin resistance. <i>Diabetologia</i> , 2012 , 55, 3083-93	10.3	39
94	Maternal obesity alters fatty acid oxidation, AMPK activity, and associated DNA methylation in mesenchymal stem cells from human infants. <i>Molecular Metabolism</i> , 2017 , 6, 1503-1516	8.8	38
93	Cytokine Regulation of AMPK signalling. <i>Frontiers in Bioscience - Landmark</i> , 2009 , 14, 1902-16	2.8	38
92	Reduced AMP-activated protein kinase activity in mouse skeletal muscle does not exacerbate the development of insulin resistance with obesity. <i>Diabetologia</i> , 2009 , 52, 2395-404	10.3	38

91	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. <i>Diabetes</i> , 2017 , 66, 1548-1559	0.9	37
90	AMP-activated protein kinase, fatty acid metabolism, and insulin sensitivity. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017 , 20, 248-253	3.8	36
89	Compensatory regulation of HDAC5 in muscle maintains metabolic adaptive responses and metabolism in response to energetic stress. <i>FASEB Journal</i> , 2014 , 28, 3384-95	0.9	36
88	The AMPK agonist 5-aminoimidazole-4-carboxamide ribonucleotide (AICAR), but not metformin, prevents inflammation-associated cachectic muscle wasting. <i>EMBO Molecular Medicine</i> , 2018 , 10,	12	36
87	Ablating the protein TBC1D1 impairs contraction-induced sarcolemmal glucose transporter 4 redistribution but not insulin-mediated responses in rats. <i>Journal of Biological Chemistry</i> , 2017 , 292, 16653-16664	5.4	34
86	Targeting metabolism and AMP-activated kinase with metformin to sensitize non-small cell lung cancer (NSCLC) to cytotoxic therapy: translational biology and rationale for current clinical trials. <i>Oncotarget</i> , 2017 , 8, 57733-57754	3.3	34
85	Markers of skeletal muscle mitochondrial function and lipid accumulation are moderately associated with the homeostasis model assessment index of insulin resistance in obese men. <i>PLoS ONE</i> , 2013 , 8, e66322	3.7	34
84	Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK α isoforms. <i>Nature Metabolism</i> , 2020 , 2, 873-881	14.6	34
83	AMPK signaling to acetyl-CoA carboxylase is required for fasting- and cold-induced appetite but not thermogenesis. <i>ELife</i> , 2018 , 7,	8.9	34
82	AMPK-dependent inhibitory phosphorylation of ACC is not essential for maintaining myocardial fatty acid oxidation. <i>Circulation Research</i> , 2014 , 115, 518-24	15.7	33
81	Socs1 deficiency enhances hepatic insulin signaling. <i>Journal of Biological Chemistry</i> , 2005 , 280, 31516-21	5.4	32
80	Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. <i>Hepatology Communications</i> , 2019 , 3, 84-98	6	32
79	FGF21 does not require adipocyte AMP-activated protein kinase (AMPK) or the phosphorylation of acetyl-CoA carboxylase (ACC) to mediate improvements in whole-body glucose homeostasis. <i>Molecular Metabolism</i> , 2017 , 6, 471-481	8.8	29
78	AMPK-ACC signaling modulates platelet phospholipids and potentiates thrombus formation. <i>Blood</i> , 2018 , 132, 1180-1192	2.2	29
77	Enhanced lipid oxidation and maintenance of muscle insulin sensitivity despite glucose intolerance in a diet-induced obesity mouse model. <i>PLoS ONE</i> , 2013 , 8, e71747	3.7	29
76	Differential regulation of adiponectin receptor gene expression by adiponectin and leptin in myotubes derived from obese and diabetic individuals. <i>Obesity</i> , 2006 , 14, 1898-904	8	29
75	Endurance interval training in obese mice reduces muscle inflammation and macrophage content independently of weight loss. <i>Physiological Reports</i> , 2014 , 2, e12012	2.6	28
74	Role of the AMP-activated protein kinase in regulating fatty acid metabolism during exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009 , 34, 315-22	3	28

73	Oligomeric resistin impairs insulin and AICAR-stimulated glucose uptake in mouse skeletal muscle by inhibiting GLUT4 translocation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E57-66	6	26
72	Hormone-sensitive lipase activity and triacylglycerol hydrolysis are decreased in rat soleus muscle by cyclopiazonic acid. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 285, E412-9	6	26
71	Interleukin-15 modulates adipose tissue by altering mitochondrial mass and activity. <i>PLoS ONE</i> , 2014 , 9, e114799	3.7	26
70	Salsalate, but not metformin or canagliflozin, slows kidney cyst growth in an adult-onset mouse model of polycystic kidney disease. <i>EBioMedicine</i> , 2019 , 47, 436-445	8.8	25
69	The AMPK activator R419 improves exercise capacity and skeletal muscle insulin sensitivity in obese mice. <i>Molecular Metabolism</i> , 2015 , 4, 643-51	8.8	24
68	Loss of TDAG51 results in mature-onset obesity, hepatic steatosis, and insulin resistance by regulating lipogenesis. <i>Diabetes</i> , 2013 , 62, 158-69	0.9	24
67	GDF15: emerging biology and therapeutic applications for obesity and cardiometabolic disease. <i>Nature Reviews Endocrinology</i> , 2021 , 17, 592-607	15.2	24
66	Muscle-specific AMPK $\alpha 2$ -null mice display a myopathy due to loss of capillary density in nonpostural muscles. <i>FASEB Journal</i> , 2014 , 28, 2098-107	0.9	23
65	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E142-53	6	22
64	Characterization of Proliferating Lesion-Resident Cells During All Stages of Atherosclerotic Growth. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	22
63	The citrus flavonoid nobiletin confers protection from metabolic dysregulation in high-fat-fed mice independent of AMPK. <i>Journal of Lipid Research</i> , 2020 , 61, 387-402	6.3	20
62	Effects of Estrogens on Adipokines and Glucose Homeostasis in Female Aromatase Knockout Mice. <i>PLoS ONE</i> , 2015 , 10, e0136143	3.7	20
61	Hepatic glucose intolerance precedes hepatic steatosis in the male aromatase knockout (ArKO) mouse. <i>PLoS ONE</i> , 2014 , 9, e87230	3.7	19
60	AMPK β reduces tumor progression and improves survival in p53 null mice. <i>Molecular Oncology</i> , 2017 , 11, 1143-1155	7.9	18
59	Cellular Energy Sensing and Metabolism-Implications for Treating Diabetes: The 2017 Outstanding Scientific Achievement Award Lecture. <i>Diabetes</i> , 2018 , 67, 169-179	0.9	18
58	Elevated mitochondrial oxidative stress impairs metabolic adaptations to exercise in skeletal muscle. <i>PLoS ONE</i> , 2013 , 8, e81879	3.7	18
57	Genetic deletion of mast cell serotonin synthesis prevents the development of obesity and insulin resistance. <i>Nature Communications</i> , 2020 , 11, 463	17.4	17
56	Adrenergic regulation of HSL serine phosphorylation and activity in human skeletal muscle during the onset of exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 291, R1094-9	3.2	17

55	High Intensity Interval Training Increases Natural Killer Cell Number and Function in Obese Breast Cancer-challenged Mice and Obese Women. <i>Journal of Cancer Prevention</i> , 2017 , 22, 260-266	3	17
54	Early oxidative shifts in mouse skeletal muscle morphology with high-fat diet consumption do not lead to functional improvements. <i>Physiological Reports</i> , 2014 , 2, e12149	2.6	16
53	Diacylglycerol kinase delta promotes lipogenesis. <i>Biochemistry</i> , 2013 , 52, 7766-76	3.2	16
52	Adiponectin: starving for attention. <i>Cell Metabolism</i> , 2007 , 6, 3-4	24.6	16
51	MRI Reveals Human Brown Adipose Tissue Is Rapidly Activated in Response to Cold. <i>Journal of the Endocrine Society</i> , 2019 , 3, 2374-2384	0.4	16
50	Optimizing the methodology for measuring supraclavicular skin temperature using infrared thermography; implications for measuring brown adipose tissue activity in humans. <i>Scientific Reports</i> , 2017 , 7, 11934	4.9	15
49	Sexual dimorphism in the glucose homeostasis phenotype of the Aromatase Knockout (ArKO) mice. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017 , 170, 39-48	5.1	13
48	Scriptaid enhances skeletal muscle insulin action and cardiac function in obese mice. <i>Diabetes, Obesity and Metabolism</i> , 2017 , 19, 936-943	6.7	13
47	IL-6 is not essential for exercise-induced increases in glucose uptake. <i>Journal of Applied Physiology</i> , 2013 , 114, 1151-7	3.7	13
46	Impact of SOCS3 overexpression on human skeletal muscle development in vitro. <i>Cytokine</i> , 2011 , 55, 104-9	4	13
45	Low salt concentrations activate AMP-activated protein kinase in mouse macula densa cells. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 296, F801-9	4.3	13
44	Skeletal muscle ACC2 S212 phosphorylation is not required for the control of fatty acid oxidation during exercise. <i>Physiological Reports</i> , 2015 , 3, e12444	2.6	12
43	SMOC1 is a glucose-responsive hepatokine and therapeutic target for glycemic control. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	12
42	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> , 2021 , 118,	11.5	12
41	Controlling skeletal muscle CPT-I malonyl-CoA sensitivity: the importance of AMPK-independent regulation of intermediate filaments during exercise. <i>Biochemical Journal</i> , 2017 , 474, 557-569	3.8	11
40	Lipogenesis inhibitors: therapeutic opportunities and challenges.. <i>Nature Reviews Drug Discovery</i> , 2022 ,	64.1	10
39	The SGLT2 inhibitor canagliflozin suppresses lipid synthesis and interleukin-1 beta in ApoE deficient mice. <i>Biochemical Journal</i> , 2020 , 477, 2347-2361	3.8	10
38	Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. <i>Hepatology Communications</i> , 2021 ,	6	10

37	The role of AMP-activated protein kinase in the expression of the dystrophin-associated protein complex in skeletal muscle. <i>FASEB Journal</i> , 2018 , 32, 2950-2965	0.9	9
36	The caveolin-1 regulated protein follistatin protects against diabetic kidney disease. <i>Kidney International</i> , 2019 , 96, 1134-1149	9.9	9
35	Salicylate enhances the response of prostate cancer to radiotherapy. <i>Prostate</i> , 2019 , 79, 489-497	4.2	9
34	Skeletal muscle AMPK is essential for the maintenance of FNDC5 expression. <i>Physiological Reports</i> , 2015 , 3, e12343	2.6	8
33	A short term high-fat high-sucrose diet in mice impairs optic nerve recovery after injury and this is not reversed by exercise. <i>Experimental Eye Research</i> , 2017 , 162, 104-109	3.7	8
32	Reduced skeletal muscle AMPK and mitochondrial markers do not promote age-induced insulin resistance. <i>Journal of Applied Physiology</i> , 2014 , 117, 171-9	3.7	8
31	Chronic modulation of AMP-Kinase, Akt and mTOR pathways by ionizing radiation in human lung cancer xenografts. <i>Radiation Oncology</i> , 2012 , 7, 71	4.2	8
30	Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. <i>Molecular Metabolism</i> , 2021 , 45, 101157	8.8	8
29	Are SIRT1 activators another indirect method to increase AMPK for beneficial effects on aging and the metabolic syndrome?. <i>EBioMedicine</i> , 2017 , 19, 16-17	8.8	7
28	Pathways involved in lipid-induced insulin resistance in obesity. <i>Future Lipidology</i> , 2007 , 2, 659-667		7
27	Impact of pesticide exposure on adipose tissue development and function. <i>Biochemical Journal</i> , 2020 , 477, 2639-2653	3.8	6
26	AMPK mediates energetic stress-induced liver GDF15. <i>FASEB Journal</i> , 2021 , 35, e21218	0.9	6
25	Compound- and fiber type-selective requirement of AMPK β for insulin-independent glucose uptake in skeletal muscle. <i>Molecular Metabolism</i> , 2021 , 51, 101228	8.8	6
24	Lower brown adipose tissue activity is associated with non-alcoholic fatty liver disease but not changes in the gut microbiota. <i>Cell Reports Medicine</i> , 2021 , 2, 100397	18	6
23	Targeting AMP-activated protein kinase (AMPK) for treatment of autosomal dominant polycystic kidney disease. <i>Cellular Signalling</i> , 2020 , 73, 109704	4.9	5
22	Caffeine blocks SREBP2-induced hepatic PCSK9 expression to enhance LDLR-mediated cholesterol clearance.. <i>Nature Communications</i> , 2022 , 13, 770	17.4	5
21	Two isoprenylated flavonoids from <i>Dorstenia psilurus</i> activate AMPK, stimulate glucose uptake, inhibit glucose production and lower glycemia. <i>Biochemical Journal</i> , 2019 , 476, 3687-3704	3.8	5
20	Obesity and muscle-macrophage crosstalk in humans and mice: A systematic review. <i>Obesity Reviews</i> , 2019 , 20, 1572-1596	10.6	4

19	Bacteria transmit metformin-associated lifespan extension. <i>Nature Reviews Endocrinology</i> , 2020 , 16, 9-10	5.2	4
18	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. <i>Nature Communications</i> , 2021 , 12, 5163	17.4	4
17	Effects of PKB/Akt inhibitors on insulin-stimulated lipogenesis and phosphorylation state of lipogenic enzymes in white adipose tissue. <i>Biochemical Journal</i> , 2020 , 477, 1373-1389	3.8	3
16	Disruption of autophagy by increased 5-HT alters gut microbiota and enhances susceptibility to experimental colitis and Crohn's disease. <i>Science Advances</i> , 2021 , 7, eabi6442	14.3	3
15	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. <i>Inflammatory Bowel Diseases</i> , 2021 , 27, 914-926	4.5	3
14	Duodenal energy sensing regulates hepatic glucose output. <i>Nature Medicine</i> , 2015 , 21, 428-9	50.5	2
13	The long and winding TRAIL to weight loss. <i>Clinical Science</i> , 2012 , 123, 545-6	6.5	1
12	The mega-importance of de novo lipogenesis in platelet production. <i>Nature Metabolism</i> , 2020 , 2, 999-1000	10.6	1
11	Combined metformin-salicylate treatment provides improved anti-tumor activity and enhanced radiotherapy response in prostate cancer; drug synergy at clinically relevant doses. <i>Translational Oncology</i> , 2021 , 14, 101209	4.9	1
10	Salsalate reduces atherosclerosis through AMPK β in mice. <i>Molecular Metabolism</i> , 2021 , 53, 101321	8.8	1
9	Adipocyte G signaling is a regulator of glucose and lipid homeostasis in mice.. <i>Nature Communications</i> , 2022 , 13, 1652	17.4	1
8	Natural (dihydro)phenanthrene plant compounds are direct activators of AMPK through its allosteric drug and metabolite binding site.. <i>Journal of Biological Chemistry</i> , 2022 , 101852	5.4	1
7	PIKfyve: a new fish in the growing pool of AMPK substrates. <i>Biochemical Journal</i> , 2013 , 455, e1-3	3.8	0
6	AMPK activation by SC4 inhibits noradrenaline-induced lipolysis and insulin-stimulated lipogenesis in white adipose tissue. <i>Biochemical Journal</i> , 2021 , 478, 3869-3889	3.8	0
5	Manufacturing T cells in hollow fiber membrane bioreactors changes their programming and enhances their potency. <i>Oncolmmunology</i> , 2021 , 10, 1995168	7.2	0
4	Metformin-induced reductions in tumor growth involves modulation of the gut microbiome.. <i>Molecular Metabolism</i> , 2022 , 101498	8.8	0
3	AMPK activation in the treatment of liver disease. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018 , WCP2018, SY83-3	0	0
2	Leukemia inhibitory factor stimulates muscle glucose uptake by a PI3-kinase dependent pathway that is maintained in white muscle in obesity (1162.4). <i>FASEB Journal</i> , 2014 , 28, 1162.4	0.9	0

- 1 Sevoflurane-induced hyperglycemia is attenuated by salsalate in obese insulin-resistant mice. *Canadian Journal of Anaesthesia*, **2021**, 68, 972-979 3