

Gregory R Steinberg

List of Publications by Year in descending order

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207
papers

21,888
citations

9264

74
h-index

9861

141
g-index

212
all docs

212
docs citations

212
times ranked

26909
citing authors

#	ARTICLE	IF	CITATIONS
1	AMPK in Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 1025-1078.	28.8	1,423
2	Adipose tissue as an endocrine organ. <i>Molecular and Cellular Endocrinology</i> , 2010, 316, 129-139.	3.2	1,345
3	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, 2688-2697.	0.6	699
4	Single phosphorylation sites in Acc1 and Acc2 regulate lipid homeostasis and the insulin-sensitizing effects of metformin. <i>Nature Medicine</i> , 2013, 19, 1649-1654.	30.7	674
5	The Ancient Drug Salicylate Directly Activates AMP-Activated Protein Kinase. <i>Science</i> , 2012, 336, 918-922.	12.6	649
6	Energy-stress-mediated AMPK activation inhibits ferroptosis. <i>Nature Cell Biology</i> , 2020, 22, 225-234.	10.3	561
7	AMPK as a Therapeutic Target for Treating Metabolic Diseases. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 545-560.	7.1	454
8	AMP-activated protein kinase: the current landscape for drug development. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 527-551.	46.4	425
9	Inhibiting peripheral serotonin synthesis reduces obesity and metabolic dysfunction by promoting brown adipose tissue thermogenesis. <i>Nature Medicine</i> , 2015, 21, 166-172.	30.7	376
10	Treatment of nonalcoholic fatty liver disease: role of AMPK. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E730-E740.	3.5	368
11	Tumor necrosis factor α -induced skeletal muscle insulin resistance involves suppression of AMP-kinase signaling. <i>Cell Metabolism</i> , 2006, 4, 465-474.	16.2	363
12	High-Density Lipoprotein Modulates Glucose Metabolism in Patients With Type 2 Diabetes Mellitus. <i>Circulation</i> , 2009, 119, 2103-2111.	1.6	363
13	AMP-activated protein kinase (AMPK) α 2 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, 16092-16097.	7.1	357
14	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, 1144-1146.	0.5	339
15	MicroRNA-33â€dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015, 125, 4334-4348.	8.2	304
16	Liver-specific ATP-citrate lyase inhibition by bempedoic acid decreases LDL-C and attenuates atherosclerosis. <i>Nature Communications</i> , 2016, 7, 13457.	12.8	296
17	Hematopoietic AMPK α 1 reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011, 121, 4903-4915.	8.2	291
18	AMPK regulation of fatty acid metabolism and mitochondrial biogenesis: Implications for obesity. <i>Molecular and Cellular Endocrinology</i> , 2013, 366, 135-151.	3.2	286

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19	The Na ⁺ /Glucose Cotransporter Inhibitor Canagliflozin Activates AMPK by Inhibiting Mitochondrial Function and Increasing Cellular AMP Levels. <i>Diabetes</i> , 2016, 65, 2784-2794.	0.6	277
20	Lack of Adipocyte AMPK Exacerbates Insulin Resistance and Hepatic Steatosis through Brown and Beige Adipose Tissue Function. <i>Cell Metabolism</i> , 2016, 24, 118-129.	16.2	259
21	CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. <i>Nature Medicine</i> , 2006, 12, 541-548.	30.7	250
22	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.	16.2	246
23	Thienopyridone Drugs Are Selective Activators of AMP-Activated Protein Kinase γ 21-Containing Complexes. <i>Chemistry and Biology</i> , 2008, 15, 1220-1230.	6.0	221
24	NOD1 Activators Link Innate Immunity to Insulin Resistance. <i>Diabetes</i> , 2011, 60, 2206-2215.	0.6	213
25	Emerging Roles for Serotonin in Regulating Metabolism: New Implications for an Ancient Molecule. <i>Endocrine Reviews</i> , 2019, 40, 1092-1107.	20.1	213
26	Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. <i>Nature Medicine</i> , 2018, 24, 1384-1394.	30.7	200
27	Regulation of HSL serine phosphorylation in skeletal muscle and adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E500-E508.	3.5	197
28	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-E993.	3.5	194
29	AMPK Activation of Muscle Autophagy Prevents Fasting-Induced Hypoglycemia and Myopathy during Aging. <i>Cell Metabolism</i> , 2015, 21, 883-890.	16.2	190
30	Metformin-induced increases in GDF15 are important for suppressing appetite and promoting weight loss. <i>Nature Metabolism</i> , 2019, 1, 1202-1208.	11.9	181
31	AMP-activated protein kinase (AMPK) beyond metabolism. <i>Cancer Biology and Therapy</i> , 2014, 15, 156-169.	3.4	174
32	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, 3665-3672.	3.6	173
33	GDF15: emerging biology and therapeutic applications for obesity and cardiometabolic disease. <i>Nature Reviews Endocrinology</i> , 2021, 17, 592-607.	9.6	162
34	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-E192.	3.5	160
35	Defective γ NOD γ 2 peptidoglycan sensing promotes diet-induced inflammation, dysbiosis, and insulin resistance. <i>EMBO Molecular Medicine</i> , 2015, 7, 259-274.	6.9	160
36	AMPK γ 21 Deletion Reduces Appetite, Preventing Obesity and Hepatic Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 115-122.	3.4	154

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37	Muramyl Dipeptide-Based Postbiotics Mitigate Obesity-Induced Insulin Resistance via IRF4. <i>Cell Metabolism</i> , 2017, 25, 1063-1074.e3.	16.2	149
38	Whole Body Deletion of AMP-activated Protein Kinase $\alpha 2$ Reduces Muscle AMPK Activity and Exercise Capacity. <i>Journal of Biological Chemistry</i> , 2010, 285, 37198-37209.	3.4	145
39	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, 978-988.	3.6	143
40	Regulation and function of triacylglycerol lipases in cellular metabolism. <i>Biochemical Journal</i> , 2008, 414, 313-325.	3.7	139
41	Small Molecule Drug A-769662 and AMP Synergistically Activate Naive AMPK Independent of Upstream Kinase Signaling. <i>Chemistry and Biology</i> , 2014, 21, 619-627.	6.0	137
42	Adipocyte triglyceride lipase expression in human obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E958-E964.	3.5	134
43	Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. <i>Biochemical Journal</i> , 2015, 468, 125-132.	3.7	132
44	The diabetes medication Canagliflozin reduces cancer cell proliferation by inhibiting mitochondrial complex-I supported respiration. <i>Molecular Metabolism</i> , 2016, 5, 1048-1056.	6.5	131
45	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.	4.2	131
46	Evidence for the role of AMPK in regulating PGC- α expression and mitochondrial proteins in mouse epididymal adipose tissue. <i>Obesity</i> , 2014, 22, 730-738.	3.0	129
47	Lipogenesis inhibitors: therapeutic opportunities and challenges. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 283-305.	46.4	124
48	Exercise-stimulated interleukin-15 is controlled by AMPK and regulates skin metabolism and aging. <i>Aging Cell</i> , 2015, 14, 625-634.	6.7	123
49	AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. <i>Journal of Physiology</i> , 2008, 586, 5819-5831.	2.9	121
50	Inflammation in Obesity is a Common Link Between Defects in Fatty Acid Metabolism and Insulin Resistance. <i>Cell Cycle</i> , 2007, 6, 888-894.	2.6	119
51	Deletion of Skeletal Muscle SOCS3 Prevents Insulin Resistance in Obesity. <i>Diabetes</i> , 2013, 62, 56-64.	0.6	117
52	AMPK promotes macrophage fatty acid oxidative metabolism to mitigate inflammation: implications for diabetes and cardiovascular disease. <i>Immunology and Cell Biology</i> , 2014, 92, 340-345.	2.3	117
53	Fluvastatin Causes NLRP3 Inflammasome-Mediated Adipose Insulin Resistance. <i>Diabetes</i> , 2014, 63, 3742-3747.	0.6	116
54	Growth Differentiation Factor 15 as a Novel Biomarker for Metformin. <i>Diabetes Care</i> , 2017, 40, 280-283.	8.6	112

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55	AMPK expression and phosphorylation are increased in rodent muscle after chronic leptin treatment. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E648-E654.	3.5	110
56	Skeletal muscle glucose uptake during contraction is regulated by nitric oxide and ROS independently of AMPK. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E577-E585.	3.5	110
57	Subcellular Localization of Cyclic AMP-Responsive Element Binding Protein-Regulated Transcription Coactivator 2 Provides a Link between Obesity and Breast Cancer in Postmenopausal Women. Cancer Research, 2009, 69, 5392-5399.	0.9	106
58	An AMP-activated protein kinase-stabilizing peptide ameliorates adipose tissue wasting in cancer cachexia in mice. Nature Medicine, 2016, 22, 1120-1130.	30.7	106
59	AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. Diabetologia, 2014, 57, 1693-1702.	6.3	105
60	Mechanism of Action of Compound-13: An ϵ -Selective Small Molecule Activator of AMPK. Chemistry and Biology, 2014, 21, 866-879.	6.0	103
61	Activation of Liver AMPK with PF-06409577 Corrects NAFLD and Lowers Cholesterol in Rodent and Primate Preclinical Models. EBioMedicine, 2018, 31, 122-132.	6.1	99
62	The Suppressor of Cytokine Signaling 3 Inhibits Leptin Activation of AMP-Kinase in Cultured Skeletal Muscle of Obese Humans. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 3592-3597.	3.6	97
63	Ciliary Neurotrophic Factor Suppresses Hypothalamic AMP-Kinase Signaling in Leptin-Resistant Obese Mice. Endocrinology, 2006, 147, 3906-3914.	2.8	92
64	Fatty acids stimulate AMP-activated protein kinase and enhance fatty acid oxidation in L6 myotubes. Journal of Physiology, 2006, 574, 139-147.	2.9	91
65	Association of Metformin with Breast Cancer Incidence and Mortality in Patients with Type II Diabetes: A GRADE-Assessed Systematic Review and Meta-analysis. Cancer Epidemiology Biomarkers and Prevention, 2018, 27, 627-635.	2.5	91
66	High intensity interval training improves liver and adipose tissue insulin sensitivity. Molecular Metabolism, 2015, 4, 903-915.	6.5	90
67	Liver-specific suppressor of cytokine signaling-3 deletion in mice enhances hepatic insulin sensitivity and lipogenesis resulting in fatty liver and obesity ¹ . Hepatology, 2010, 52, 1632-1642.	7.3	89
68	Fatty acid oxidation and triacylglycerol hydrolysis are enhanced after chronic leptin treatment in rats. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E593-E600.	3.5	88
69	Reduced plasma FFA availability increases net triacylglycerol degradation, but not GPAT or HSL activity, in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E120-E127.	3.5	84
70	The gut microbiome regulates host glucose homeostasis via peripheral serotonin. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19802-19804.	7.1	84
71	Reduced glycogen availability is associated with increased AMPK α 2 activity, nuclear AMPK α 2 protein abundance, and GLUT4 mRNA expression in contracting human skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2006, 31, 302-312.	1.9	83
72	A standardized infrared imaging technique that specifically detects UCP1-mediated thermogenesis in vivo. Molecular Metabolism, 2014, 3, 490-494.	6.5	82

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73	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, 4575-4580.	3.6	81
74	Chronic Leptin Administration Decreases Fatty Acid Uptake and Fatty Acid Transporters in Rat Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 8854-8860.	3.4	80
75	Salicylate activates AMPK and synergizes with metformin to reduce the survival of prostate and lung cancer cells <i>ex vivo</i> through inhibition of <i>de novo</i> lipogenesis. <i>Biochemical Journal</i> , 2015, 469, 177-187.	3.7	79
76	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.	3.6	79
77	Suppressor of cytokine signalling (SOCS) proteins as guardians of inflammatory responses critical for regulating insulin sensitivity. <i>Biochemical Journal</i> , 2014, 461, 177-188.	3.7	76
78	Long-chain fatty acyl-CoA esters regulate metabolism via allosteric control of AMPK α 1 isoforms. <i>Nature Metabolism</i> , 2020, 2, 873-881.	11.9	76
79	AMPK-dependent hormonal regulation of whole-body energy metabolism. <i>Acta Physiologica</i> , 2009, 196, 115-127.	3.8	75
80	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-E696.	3.5	75
81	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, .	7.1	75
82	The AMP-Activated Protein Kinase: Role in Regulation of Skeletal Muscle Metabolism and Insulin Sensitivity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2007, 7, 521-528.	2.4	72
83	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, 2023-2031.	0.6	72
84	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, 4852-4862.	3.6	71
85	Targeting ATP-Citrate Lyase in Hyperlipidemia and Metabolic Disorders. <i>Trends in Molecular Medicine</i> , 2017, 23, 1047-1063.	6.7	71
86	SIRT1 Takes a Backseat to AMPK in the Regulation of Insulin Sensitivity by Resveratrol. <i>Diabetes</i> , 2010, 59, 551-553.	0.6	69
87	The role of AMPK in controlling metabolism and mitochondrial biogenesis during exercise. <i>Experimental Physiology</i> , 2014, 99, 1581-1585.	2.0	69
88	β -adrenergic stimulation of skeletal muscle HSL can be overridden by AMPK signaling. <i>FASEB Journal</i> , 2004, 18, 1445-1446.	0.5	68
89	AMPK: mediating the metabolic effects of salicylate-based drugs?. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 481-487.	7.1	68
90	Contraction-induced skeletal muscle FAT/CD36 trafficking and FA uptake is AMPK independent. <i>Journal of Lipid Research</i> , 2011, 52, 699-711.	4.2	67

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91	AMPK deficiency in cardiac muscle results in dilated cardiomyopathy in the absence of changes in energy metabolism. Cardiovascular Research, 2015, 107, 235-245.	3.8	67
92	AMP-activated protein kinase – the fat controller of the energy railroadThis paper is one of a selection of papers published in this Special issue, entitled Second Messengers and Phosphoproteins” 12th International Conference.. Canadian Journal of Physiology and Pharmacology, 2006, 84, 655-665.	1.4	66
93	PGC-1 α gene expression is down-regulated by Akt-mediated phosphorylation and nuclear exclusion of FoxO1 in insulin-stimulated skeletal muscle. FASEB Journal, 2005, 19, 2072-2074.	0.5	65
94	Deficiency in Interferon- β Results in Reduced Body Weight and Better Glucose Tolerance in Mice. Endocrinology, 2011, 152, 3690-3699.	2.8	65
95	The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. Nature Communications, 2017, 8, 571.	12.8	65
96	Endurance training partially reverses dietary-induced leptin resistance in rodent skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E57-E63.	3.5	64
97	Immunometabolism of AMPK in insulin resistance and atherosclerosis. Molecular and Cellular Endocrinology, 2013, 366, 224-234.	3.2	64
98	Exercise reverses age-related vulnerability of the retina to injury by preventing complement-mediated synapse elimination via a BDNF-dependent pathway. Aging Cell, 2016, 15, 1082-1091.	6.7	64
99	Recent advances in the detection of brown adipose tissue in adult humans: a review. Clinical Science, 2018, 132, 1039-1054.	4.3	63
100	PPAR γ activation attenuates hepatic steatosis in Ldlr mice by enhanced fat oxidation, reduced lipogenesis, and improved insulin sensitivity. Journal of Lipid Research, 2014, 55, 1254-1266.	4.2	61
101	Metformin-induced ablation of microRNA 21-5p releases Sestrin-1 and CAB39L antitumoral activities. Cell Discovery, 2017, 3, 17022.	6.7	59
102	The AMPK agonist 5-aminoimidazole-4-carboxamide ribonucleotide (AICAR), but not metformin, prevents inflammation-associated cachectic muscle wasting. EMBO Molecular Medicine, 2018, 10, .	6.9	58
103	AMPK signaling to acetyl-CoA carboxylase is required for fasting- and cold-induced appetite but not thermogenesis. ELife, 2018, 7, .	6.0	58
104	Salsalate (Salicylate) Uncouples Mitochondria, Improves Glucose Homeostasis, and Reduces Liver Lipids Independent of AMPK- β 1. Diabetes, 2016, 65, 3352-3361.	0.6	57
105	Maternal obesity alters fatty acid oxidation, AMPK activity, and associated DNA methylation in mesenchymal stem cells from human infants. Molecular Metabolism, 2017, 6, 1503-1516.	6.5	57
106	AMPK-ACC signaling modulates platelet phospholipids and potentiates thrombus formation. Blood, 2018, 132, 1180-1192.	1.4	57
107	Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy- β -Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. Hepatology Communications, 2019, 3, 84-98.	4.3	56
108	Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPAR α and UCP2 expression in rats. Journal of Endocrinology, 2008, 198, 367-374.	2.6	55

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109	Salicylate improves macrophage cholesterol homeostasis via activation of Ampk. <i>Journal of Lipid Research</i> , 2015, 56, 1025-1033.	4.2	55
110	Inhibition of ATP-citrate lyase improves NASH, liver fibrosis, and dyslipidemia. <i>Cell Metabolism</i> , 2022, 34, 919-936.e8.	16.2	55
111	Inhibition of AMP-Activated Protein Kinase at the Allosteric Drug-Binding Site Promotes Islet Insulin Release. <i>Chemistry and Biology</i> , 2015, 22, 705-711.	6.0	50
112	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.	6.1	50
113	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.	3.4	49
114	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.	0.6	48
115	Ciliary Neurotrophic Factor Stimulates Muscle Glucose Uptake by a PI3-Kinase-Dependent Pathway That Is Impaired With Obesity. <i>Diabetes</i> , 2009, 58, 829-839.	0.6	47
116	Compensatory regulation of HDAC5 in muscle maintains metabolic adaptive responses and metabolism in response to energetic stress. <i>FASEB Journal</i> , 2014, 28, 3384-3395.	0.5	47
117	The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. <i>Nature Communications</i> , 2021, 12, 5163.	12.8	47
118	Caffeine blocks SREBP2-induced hepatic PCSK9 expression to enhance LDLR-mediated cholesterol clearance. <i>Nature Communications</i> , 2022, 13, 770.	12.8	47
119	Reduced Socs3 expression in adipose tissue protects female mice against obesity-induced insulin resistance. <i>Diabetologia</i> , 2012, 55, 3083-3093.	6.3	46
120	AMP-activated protein kinase, fatty acid metabolism, and insulin sensitivity. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2017, 20, 248-253.	2.5	46
121	Bradykinin stimulates endothelial cell fatty acid oxidation by CaMKK-dependent activation of AMPK. <i>Atherosclerosis</i> , 2008, 200, 28-36.	0.8	45
122	AMPK-Dependent Inhibitory Phosphorylation of ACC Is Not Essential for Maintaining Myocardial Fatty Acid Oxidation. <i>Circulation Research</i> , 2014, 115, 518-524.	4.5	43
123	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, 2395-2404.	6.3	42
124	Cytokine Regulation of AMPK signalling. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1902.	3.0	40
125	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.	6.5	40
126	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.	4.2	39

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127	Markers of Skeletal Muscle Mitochondrial Function and Lipid Accumulation Are Moderately Associated with the Homeostasis Model Assessment Index of Insulin Resistance in Obese Men. PLoS ONE, 2013, 8, e66322.	2.5	37
128	Socs1 Deficiency Enhances Hepatic Insulin Signaling. Journal of Biological Chemistry, 2005, 280, 31516-31521.	3.4	35
129	Differential Regulation of Adiponectin Receptor Gene Expression by Adiponectin and Leptin in Myotubes Derived from Obese and Diabetic Individuals. Obesity, 2006, 14, 1898-1904.	3.0	35
130	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. Oncotarget, 2017, 8, 57733-57754.	1.8	35
131	Genetic deletion of mast cell serotonin synthesis prevents the development of obesity and insulin resistance. Nature Communications, 2020, 11, 463.	12.8	35
132	Lower brown adipose tissue activity is associated with non-alcoholic fatty liver disease but not changes in the gut microbiota. Cell Reports Medicine, 2021, 2, 100397.	6.5	35
133	Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. Hepatology Communications, 2022, 6, 101-119.	4.3	35
134	Oligomeric resistin impairs insulin and AICAR-stimulated glucose uptake in mouse skeletal muscle by inhibiting GLUT4 translocation. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E57-E66.	3.5	34
135	Loss of TDAG51 Results in Mature-Onset Obesity, Hepatic Steatosis, and Insulin Resistance by Regulating Lipogenesis. Diabetes, 2013, 62, 158-169.	0.6	34
136	Enhanced Lipid Oxidation and Maintenance of Muscle Insulin Sensitivity Despite Glucose Intolerance in a Diet-Induced Obesity Mouse Model. PLoS ONE, 2013, 8, e71747.	2.5	32
137	Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. Inflammatory Bowel Diseases, 2021, 27, 914-926.	1.9	32
138	Endurance interval training in obese mice reduces muscle inflammation and macrophage content independently of weight loss. Physiological Reports, 2014, 2, e12012.	1.7	31
139	The AMPK activator R419 improves exercise capacity and skeletal muscle insulin sensitivity in obese mice. Molecular Metabolism, 2015, 4, 643-651.	6.5	31
140	Interleukin-15 Modulates Adipose Tissue by Altering Mitochondrial Mass and Activity. PLoS ONE, 2014, 9, e114799.	2.5	31
141	Role of the AMP-activated protein kinase in regulating fatty acid metabolism during exerciseThis paper is one of a selection of papers published in this Special Issue, entitled 14th International Biochemistry of Exercise Conference“ Muscles as Molecular and Metabolic Machines, and has undergone the Journal’s usual peer review process.. Applied Physiology, Nutrition and Metabolism, 2009, 34, 315-322.	1.9	30
142	SMOC1 is a glucose-responsive hepatokine and therapeutic target for glycemic control. Science Translational Medicine, 2020, 12, .	12.4	29
143	High Intensity Interval Training Increases Natural Killer Cell Number and Function in Obese Breast Cancer-challenged Mice and Obese Women. Journal of Cancer Prevention, 2017, 22, 260-266.	2.0	29
144	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E142-E153.	3.5	28

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145	Characterization of Proliferating Lesion-Resident Cells During All Stages of Atherosclerotic Growth. Journal of the American Heart Association, 2016, 5, .	3.7	28
146	<sc>AMPK</sc> β 1 reduces tumor progression and improves survival in p53 null mice. Molecular Oncology, 2017, 11, 1143-1155.	4.6	28
147	Hormone-sensitive lipase activity and triacylglycerol hydrolysis are decreased in rat soleus muscle by cyclopiazonic acid. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E412-E419.	3.5	27
148	The SGLT2 inhibitor canagliflozin suppresses lipid synthesis and interleukin-1 beta in ApoE deficient mice. Biochemical Journal, 2020, 477, 2347-2361.	3.7	26
149	Muscle-specific AMPK β 1 β 2 null mice display a myopathy due to loss of capillary density in nonpostural muscles. FASEB Journal, 2014, 28, 2098-2107.	0.5	25
150	MRI Reveals Human Brown Adipose Tissue Is Rapidly Activated in Response to Cold. Journal of the Endocrine Society, 2019, 3, 2374-2384.	0.2	25
151	AMPK mediates energetic stress-induced liver GDF15. FASEB Journal, 2021, 35, e21218.	0.5	25
152	Disruption of autophagy by increased 5-HT alters gut microbiota and enhances susceptibility to experimental colitis and Crohn's disease. Science Advances, 2021, 7, eabi6442.	10.3	25
153	Effects of Estrogens on Adipokines and Glucose Homeostasis in Female Aromatase Knockout Mice. PLoS ONE, 2015, 10, e0136143.	2.5	22
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