

Gregory R Steinberg

List of Publications by Year in descending order

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Version: 2024-02-01

207
papers

21,888
citations

10650

74
h-index

11282

141
g-index

212
all docs

212
docs citations

212
times ranked

28972
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | AMPK in Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 1025-1078. | 13.1 | 1,423 |
| 2 | Adipose tissue as an endocrine organ. <i>Molecular and Cellular Endocrinology</i> , 2010, 316, 129-139. | 1.6 | 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. | 0.3 | 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. | 15.2 | 674 |
| 5 | The Ancient Drug Salicylate Directly Activates AMP-Activated Protein Kinase. <i>Science</i> , 2012, 336, 918-922. | 6.0 | 649 |
| 6 | Energy-stress-mediated AMPK activation inhibits ferroptosis. <i>Nature Cell Biology</i> , 2020, 22, 225-234. | 4.6 | 561 |
| 7 | AMPK as a Therapeutic Target for Treating Metabolic Diseases. <i>Trends in Endocrinology and Metabolism</i> , 2017, 28, 545-560. | 3.1 | 454 |
| 8 | AMP-activated protein kinase: the current landscape for drug development. <i>Nature Reviews Drug Discovery</i> , 2019, 18, 527-551. | 21.5 | 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. | 15.2 | 376 |
| 10 | Treatment of nonalcoholic fatty liver disease: role of AMPK. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E730-E740. | 1.8 | 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. | 7.2 | 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) β 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. | 3.3 | 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. | 0.2 | 339 |
| 15 | MicroRNA-33-dependent regulation of macrophage metabolism directs immune cell polarization in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2015, 125, 4334-4348. | 3.9 | 304 |
| 16 | Liver-specific ATP-citrate lyase inhibition by bempedoic acid decreases LDL-C and attenuates atherosclerosis. <i>Nature Communications</i> , 2016, 7, 13457. | 5.8 | 296 |
| 17 | Hematopoietic AMPK β 1 reduces mouse adipose tissue macrophage inflammation and insulin resistance in obesity. <i>Journal of Clinical Investigation</i> , 2011, 121, 4903-4915. | 3.9 | 291 |
| 18 | AMPK regulation of fatty acid metabolism and mitochondrial biogenesis: Implications for obesity. <i>Molecular and Cellular Endocrinology</i> , 2013, 366, 135-151. | 1.6 | 286 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 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. | 0.3 | 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. | 7.2 | 259 |
| 21 | CNTF reverses obesity-induced insulin resistance by activating skeletal muscle AMPK. <i>Nature Medicine</i> , 2006, 12, 541-548. | 15.2 | 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. | 7.2 | 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. | 6.2 | 221 |
| 24 | NOD1 Activators Link Innate Immunity to Insulin Resistance. <i>Diabetes</i> , 2011, 60, 2206-2215. | 0.3 | 213 |
| 25 | Emerging Roles for Serotonin in Regulating Metabolism: New Implications for an Ancient Molecule. <i>Endocrine Reviews</i> , 2019, 40, 1092-1107. | 8.9 | 213 |
| 26 | Metformin inhibits gluconeogenesis via a redox-dependent mechanism in vivo. <i>Nature Medicine</i> , 2018, 24, 1384-1394. | 15.2 | 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. | 1.8 | 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. | 1.8 | 194 |
| 29 | AMPK Activation of Muscle Autophagy Prevents Fasting-Induced Hypoglycemia and Myopathy during Aging. <i>Cell Metabolism</i> , 2015, 21, 883-890. | 7.2 | 190 |
| 30 | Metformin-induced increases in GDF15 are important for suppressing appetite and promoting weight loss. <i>Nature Metabolism</i> , 2019, 1, 1202-1208. | 5.1 | 181 |
| 31 | AMP-activated protein kinase (AMPK) beyond metabolism. <i>Cancer Biology and Therapy</i> , 2014, 15, 156-169. | 1.5 | 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. | 1.8 | 173 |
| 33 | GDF15: emerging biology and therapeutic applications for obesity and cardiometabolic disease. <i>Nature Reviews Endocrinology</i> , 2021, 17, 592-607. | 4.3 | 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. | 1.8 | 160 |
| 35 | Defective γ 21 NOD2 peptidoglycan sensing promotes diet-induced inflammation, dysbiosis, and insulin resistance. <i>EMBO Molecular Medicine</i> , 2015, 7, 259-274. | 3.3 | 160 |
| 36 | AMPK γ 21 Deletion Reduces Appetite, Preventing Obesity and Hepatic Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2010, 285, 115-122. | 1.6 | 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. | 7.2 | 149 |
| 38 | Whole Body Deletion of AMP-activated Protein Kinase β 2 Reduces Muscle AMPK Activity and Exercise Capacity. <i>Journal of Biological Chemistry</i> , 2010, 285, 37198-37209. | 1.6 | 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. | 1.7 | 143 |
| 40 | Regulation and function of triacylglycerol lipases in cellular metabolism. <i>Biochemical Journal</i> , 2008, 414, 313-325. | 1.7 | 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. | 6.2 | 137 |
| 42 | Adipocyte triglyceride lipase expression in human obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 293, E958-E964. | 1.8 | 134 |
| 43 | Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. <i>Biochemical Journal</i> , 2015, 468, 125-132. | 1.7 | 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. | 3.0 | 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. | 1.7 | 131 |
| 46 | Evidence for the role of AMPK in regulating PGC-1 α expression and mitochondrial proteins in mouse epididymal adipose tissue. <i>Obesity</i> , 2014, 22, 730-738. | 1.5 | 129 |
| 47 | Lipogenesis inhibitors: therapeutic opportunities and challenges. <i>Nature Reviews Drug Discovery</i> , 2022, 21, 283-305. | 21.5 | 124 |
| 48 | Exercise-stimulated interleukin-15 is controlled by AMPK and regulates skin metabolism and aging. <i>Aging Cell</i> , 2015, 14, 625-634. | 3.0 | 123 |
| 49 | AMPK-independent pathways regulate skeletal muscle fatty acid oxidation. <i>Journal of Physiology</i> , 2008, 586, 5819-5831. | 1.3 | 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. | 1.3 | 119 |
| 51 | Deletion of Skeletal Muscle SOCS3 Prevents Insulin Resistance in Obesity. <i>Diabetes</i> , 2013, 62, 56-64. | 0.3 | 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. | 1.0 | 117 |
| 53 | Fluvastatin Causes NLRP3 Inflammasome-Mediated Adipose Insulin Resistance. <i>Diabetes</i> , 2014, 63, 3742-3747. | 0.3 | 116 |
| 54 | Growth Differentiation Factor 15 as a Novel Biomarker for Metformin. <i>Diabetes Care</i> , 2017, 40, 280-283. | 4.3 | 112 |

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|----|--|------|-----------|
| 55 | 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-E654. | 1.8 | 110 |
| 56 | 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-E585. | 1.8 | 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. <i>Cancer Research</i> , 2009, 69, 5392-5399. | 0.4 | 106 |
| 58 | An AMP-activated protein kinase-stabilizing peptide ameliorates adipose tissue wasting in cancer cachexia in mice. <i>Nature Medicine</i> , 2016, 22, 1120-1130. | 15.2 | 106 |
| 59 | AMPK phosphorylation of ACC2 is required for skeletal muscle fatty acid oxidation and insulin sensitivity in mice. <i>Diabetologia</i> , 2014, 57, 1693-1702. | 2.9 | 105 |
| 60 | Mechanism of Action of Compound-13: An β -1-Selective Small Molecule Activator of AMPK. <i>Chemistry and Biology</i> , 2014, 21, 866-879. | 6.2 | 103 |
| 61 | 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. | 2.7 | 99 |
| 62 | 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, 3592-3597. | 1.8 | 97 |
| 63 | Ciliary Neurotrophic Factor Suppresses Hypothalamic AMP-Kinase Signaling in Leptin-Resistant Obese Mice. <i>Endocrinology</i> , 2006, 147, 3906-3914. | 1.4 | 92 |
| 64 | Fatty acids stimulate AMP-activated protein kinase and enhance fatty acid oxidation in L6 myotubes. <i>Journal of Physiology</i> , 2006, 574, 139-147. | 1.3 | 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. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 627-635. | 1.1 | 91 |
| 66 | High intensity interval training improves liver and adipose tissue insulin sensitivity. <i>Molecular Metabolism</i> , 2015, 4, 903-915. | 3.0 | 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 . <i>Hepatology</i> , 2010, 52, 1632-1642. | 3.6 | 89 |
| 68 | 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-E600. | 1.8 | 88 |
| 69 | 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-E127. | 1.8 | 84 |
| 70 | 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. | 3.3 | 84 |
| 71 | Reduced glycogen availability is associated with increased AMPK β activity, nuclear AMPK β protein abundance, and GLUT4 mRNA expression in contracting human skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2006, 31, 302-312. | 0.9 | 83 |
| 72 | A standardized infrared imaging technique that specifically detects UCP1-mediated thermogenesis in vivo. <i>Molecular Metabolism</i> , 2014, 3, 490-494. | 3.0 | 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. | 1.8 | 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. | 1.6 | 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. | 1.7 | 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. | 1.7 | 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. | 1.7 | 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. | 5.1 | 76 |
| 79 | AMPK-dependent hormonal regulation of whole-body energy metabolism. <i>Acta Physiologica</i> , 2009, 196, 115-127. | 1.8 | 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. | 1.8 | 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, . | 3.3 | 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. | 1.1 | 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. | 0.3 | 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. | 1.8 | 71 |
| 85 | Targeting ATP-Citrate Lyase in Hyperlipidemia and Metabolic Disorders. <i>Trends in Molecular Medicine</i> , 2017, 23, 1047-1063. | 3.5 | 71 |
| 86 | SIRT1 Takes a Backseat to AMPK in the Regulation of Insulin Sensitivity by Resveratrol. <i>Diabetes</i> , 2010, 59, 551-553. | 0.3 | 69 |
| 87 | The role of AMPK in controlling metabolism and mitochondrial biogenesis during exercise. <i>Experimental Physiology</i> , 2014, 99, 1581-1585. | 0.9 | 69 |
| 88 | β -adrenergic stimulation of skeletal muscle HSL can be overridden by AMPK signaling. <i>FASEB Journal</i> , 2004, 18, 1445-1446. | 0.2 | 68 |
| 89 | AMPK: mediating the metabolic effects of salicylate-based drugs?. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 481-487. | 3.1 | 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. | 2.0 | 67 |

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|-----|---|-----|-----------|
| 91 | AMPK deficiency in cardiac muscle results in dilated cardiomyopathy in the absence of changes in energy metabolism. <i>Cardiovascular Research</i> , 2015, 107, 235-245. | 1.8 | 67 |
| 92 | AMP-activated protein kinase – the fat controller of the energy railroad This paper is one of a selection of papers published in this Special issue, entitled Second Messengers and Phosphoproteins – 12th International Conference.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2006, 84, 655-665. | 0.7 | 66 |
| 93 | PGC-1 α 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, 2072-2074. | 0.2 | 65 |
| 94 | Deficiency in Interferon- β Results in Reduced Body Weight and Better Glucose Tolerance in Mice. <i>Endocrinology</i> , 2011, 152, 3690-3699. | 1.4 | 65 |
| 95 | The autophagy initiator ULK1 sensitizes AMPK to allosteric drugs. <i>Nature Communications</i> , 2017, 8, 571. | 5.8 | 65 |
| 96 | Endurance training partially reverses dietary-induced leptin resistance in rodent skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2004, 286, E57-E63. | 1.8 | 64 |
| 97 | Immunometabolism of AMPK in insulin resistance and atherosclerosis. <i>Molecular and Cellular Endocrinology</i> , 2013, 366, 224-234. | 1.6 | 64 |
| 98 | 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. | 3.0 | 64 |
| 99 | Recent advances in the detection of brown adipose tissue in adult humans: a review. <i>Clinical Science</i> , 2018, 132, 1039-1054. | 1.8 | 63 |
| 100 | PPAR γ 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, 1254-1266. | 2.0 | 61 |
| 101 | Metformin-induced ablation of microRNA 21-5p releases Sestrin-1 and CAB39L antitumoral activities. <i>Cell Discovery</i> , 2017, 3, 17022. | 3.1 | 59 |
| 102 | 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, . | 3.3 | 58 |
| 103 | AMPK signaling to acetyl-CoA carboxylase is required for fasting- and cold-induced appetite but not thermogenesis. <i>ELife</i> , 2018, 7, . | 2.8 | 58 |
| 104 | Salsalate (Salicylate) Uncouples Mitochondria, Improves Glucose Homeostasis, and Reduces Liver Lipids Independent of AMPK- β 1. <i>Diabetes</i> , 2016, 65, 3352-3361. | 0.3 | 57 |
| 105 | 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. | 3.0 | 57 |
| 106 | AMPK-ACC signaling modulates platelet phospholipids and potentiates thrombus formation. <i>Blood</i> , 2018, 132, 1180-1192. | 0.6 | 57 |
| 107 | Inhibition of Adenosine Monophosphate-Activated Protein Kinase-3-Hydroxy-Methylglutaryl Coenzyme A Reductase Signaling Leads to Hypercholesterolemia and Promotes Hepatic Steatosis and Insulin Resistance. <i>Hepatology Communications</i> , 2019, 3, 84-98. | 2.0 | 56 |
| 108 | Prolonged interleukin-6 administration enhances glucose tolerance and increases skeletal muscle PPAR α and UCP2 expression in rats. <i>Journal of Endocrinology</i> , 2008, 198, 367-374. | 1.2 | 55 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Salicylate improves macrophage cholesterol homeostasis via activation of Ampk. <i>Journal of Lipid Research</i> , 2015, 56, 1025-1033. | 2.0 | 55 |
| 110 | Inhibition of ATP-citrate lyase improves NASH, liver fibrosis, and dyslipidemia. <i>Cell Metabolism</i> , 2022, 34, 919-936.e8. | 7.2 | 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. | 6.2 | 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. | 2.7 | 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. | 1.6 | 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. | 0.3 | 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. | 0.3 | 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. | 0.2 | 47 |
| 117 | The pesticide chlorpyrifos promotes obesity by inhibiting diet-induced thermogenesis in brown adipose tissue. <i>Nature Communications</i> , 2021, 12, 5163. | 5.8 | 47 |
| 118 | Caffeine blocks SREBP2-induced hepatic PCSK9 expression to enhance LDLR-mediated cholesterol clearance. <i>Nature Communications</i> , 2022, 13, 770. | 5.8 | 47 |
| 119 | Reduced Socs3 expression in adipose tissue protects female mice against obesity-induced insulin resistance. <i>Diabetologia</i> , 2012, 55, 3083-3093. | 2.9 | 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. | 1.3 | 46 |
| 121 | Bradykinin stimulates endothelial cell fatty acid oxidation by CaMKK-dependent activation of AMPK. <i>Atherosclerosis</i> , 2008, 200, 28-36. | 0.4 | 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. | 2.0 | 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. | 2.9 | 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. | 3.0 | 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. | 2.0 | 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. <i>PLoS ONE</i> , 2013, 8, e66322. | 1.1 | 37 |
| 128 | Socs1 Deficiency Enhances Hepatic Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2005, 280, 31516-31521. | 1.6 | 35 |
| 129 | Differential Regulation of Adiponectin Receptor Gene Expression by Adiponectin and Leptin in Myotubes Derived from Obese and Diabetic Individuals. <i>Obesity</i> , 2006, 14, 1898-1904. | 1.5 | 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. <i>Oncotarget</i> , 2017, 8, 57733-57754. | 0.8 | 35 |
| 131 | Genetic deletion of mast cell serotonin synthesis prevents the development of obesity and insulin resistance. <i>Nature Communications</i> , 2020, 11, 463. | 5.8 | 35 |
| 132 | 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. | 3.3 | 35 |
| 133 | Direct AMPK Activation Corrects NASH in Rodents Through Metabolic Effects and Direct Action on Inflammation and Fibrogenesis. <i>Hepatology Communications</i> , 2022, 6, 101-119. | 2.0 | 35 |
| 134 | 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-E66. | 1.8 | 34 |
| 135 | Loss of TDAG51 Results in Mature-Onset Obesity, Hepatic Steatosis, and Insulin Resistance by Regulating Lipogenesis. <i>Diabetes</i> , 2013, 62, 158-169. | 0.3 | 34 |
| 136 | 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. | 1.1 | 32 |
| 137 | Salicylates Ameliorate Intestinal Inflammation by Activating Macrophage AMPK. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 914-926. | 0.9 | 32 |
| 138 | Endurance interval training in obese mice reduces muscle inflammation and macrophage content independently of weight loss. <i>Physiological Reports</i> , 2014, 2, e12012. | 0.7 | 31 |
| 139 | The AMPK activator R419 improves exercise capacity and skeletal muscle insulin sensitivity in obese mice. <i>Molecular Metabolism</i> , 2015, 4, 643-651. | 3.0 | 31 |
| 140 | Interleukin-15 Modulates Adipose Tissue by Altering Mitochondrial Mass and Activity. <i>PLoS ONE</i> , 2014, 9, e114799. | 1.1 | 31 |
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