# Neil B Ruderman

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 142 papers | 21,433 citations | 10979 71 h-index | 10441 139 g-index |
| 149 all docs | 149 docs citations | 149 times ranked | 21768 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. Nature, 2010, 464, 121-125. | 13.7 | 1,388 |
| 2 | Lipid-Induced Insulin Resistance in Human Muscle Is Associated With Changes in Diacylglycerol, Protein Kinase C, and IÂB-Â. Diabetes, 2002, 51, 2005-2011. | 0.3 | 1,216 |
| 3 | Enhanced muscle fat oxidation and glucose transport by ACRP30 globular domain: Acetyl-CoA carboxylase inhibition and AMP-activated protein kinase activation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16309-16313. | 3.3 | 893 |
| 4 | AMPK and SIRT1: a long-standing partnership?. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E751-E760. | 1.8 | 717 |
| 5 | SIRT1 Modulation of the Acetylation Status, Cytosolic Localization, and Activity of LKB1. Journal of Biological Chemistry, 2008, 283, 27628-27635. | 1.6 | 693 |
| 6 | AMPK, insulin resistance, and the metabolic syndrome. Journal of Clinical Investigation, 2013, 123, 2764-2772. | 3.9 | 672 |
| 7 | Mice Lacking Adiponectin Show Decreased Hepatic Insulin Sensitivity and Reduced Responsiveness to Peroxisome Proliferator-activated Receptor Î³ Agonists. Journal of Biological Chemistry, 2006, 281, 2654-2660. | 1.6 | 558 |
| 8 | Free Fatty Acids Produce Insulin Resistance and Activate the Proinflammatory Nuclear Factor-ÂB Pathway in Rat Liver. Diabetes, 2005, 54, 3458-3465. | 0.3 | 476 |
| 9 | Muscle Glucose Metabolism following Exercise in the Rat. Journal of Clinical Investigation, 1982, 69, 785-793. | 3.9 | 435 |
| 10 | Role of Disulfide Bonds in Acrp30/Adiponectin Structure and Signaling Specificity. Journal of Biological Chemistry, 2003, 278, 50810-50817. | 1.6 | 423 |
| 11 | AMP-activated Protein Kinase Is Required for the Lipid-lowering Effect of Metformin in Insulin-resistant Human HepG2 Cells. Journal of Biological Chemistry, 2004, 279, 47898-47905. | 1.6 | 401 |
| 12 | AMPK, the metabolic syndrome and cancer. Trends in Pharmacological Sciences, 2005, 26, 69-76. | 4.0 | 392 |
| 13 | AMP kinase and malonyl-CoA: targets for therapy of the metabolic syndrome. Nature Reviews Drug Discovery, 2004, 3, 340-351. | 21.5 | 385 |
| 14 | AMPK and the biochemistry of exercise: implications for human health and disease. Biochemical Journal, 2009, 418, 261-275. | 1.7 | 375 |
| 15 | Physical Inactivity Rapidly Induces Insulin Resistance and Microvascular Dysfunction in Healthy Volunteers. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 2650-2656. | 1.1 | 372 |
| 16 | Glucose and diabetic vascular disease 1. FASEB Journal, 1992, 6, 2905-2914. | 0.2 | 361 |
| 17 | Contraction-induced Changes in Acetyl-CoA Carboxylase and 5â€²-AMP-activated Kinase in Skeletal Muscle. Journal of Biological Chemistry, 1997, 272, 13255-13261. | 1.6 | 354 |
| 18 | Coordinate Regulation of Malonyl-CoA Decarboxylase,sn-Glycerol-3-phosphate Acyltransferase, and Acetyl-CoA Carboxylase by AMP-activated Protein Kinase in Rat Tissues in Response to Exercise. Journal of Biological Chemistry, 2002, 277, 32571-32577. | 1.6 | 327 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Malonyl-CoA, fuel sensing, and insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E1-E18. | 1.8 | 326 |
| 20 | Hyperglycemia-Induced Apoptosis in Human Umbilical Vein Endothelial Cells: Inhibition by the AMP-Activated Protein Kinase Activation. Diabetes, 2002, 51, 159-167. | 0.3 | 319 |
| 21 | SIRT4 Coordinates the Balance between Lipid Synthesis and Catabolism by Repressing Malonyl CoA Decarboxylase. Molecular Cell, 2013, 50, 686-698. | 4.5 | 315 |
| 22 | Diabetes as an atherogenic factor. Progress in Cardiovascular Diseases, 1984, 26, 373-412. | 1.6 | 286 |
| 23 | AICAR Administration Causes an Apparent Enhancement of Muscle and Liver Insulin Action in Insulin-Resistant High-Fat-Fed Rats. Diabetes, 2002, 51, 2886-2894. | 0.3 | 272 |
| 24 | The Formation of Glutamine and Alanine in Skeletal Muscle. Journal of Biological Chemistry, 1974, 249, 5500-5506. | 1.6 | 269 |
| 25 | Minireview: Malonyl CoA, AMP-Activated Protein Kinase, and Adiposity. Endocrinology, 2003, 144, 5166-5171. | 1.4 | 252 |
| 26 | AMP-activated protein kinase activators can inhibit the growth of prostate cancer cells by multiple mechanisms. Biochemical and Biophysical Research Communications, 2004, 321, 161-167. | 1.0 | 247 |
| 27 | Thiazolidinediones can rapidly activate AMP-activated protein kinase in mammalian tissues. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E175-E181. | 1.8 | 247 |
| 28 | AMPK activity is diminished in tissues of IL-6 knockout mice: the effect of exercise. Biochemical and Biophysical Research Communications, 2004, 320, 449-454. | 1.0 | 242 |
| 29 | Deficiency of electron transport chain in human skeletal muscle mitochondria in type 2 diabetes mellitus and obesity. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E49-E58. | 1.8 | 238 |
| 30 | AMPK inhibits fatty acid-induced increases in NF-ÎºB transactivation in cultured human umbilical vein endothelial cells. Biochemical and Biophysical Research Communications, 2004, 324, 1204-1209. | 1.0 | 228 |
| 31 | AMP-activated Protein Kinase Is Activated as a Consequence of Lipolysis in the Adipocyte. Journal of Biological Chemistry, 2008, 283, 16514-16524. | 1.6 | 219 |
| 32 | AMPK activation: a therapeutic target for type 2 diabetes?. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2014, 7, 241. | 1.1 | 214 |
| 33 | Intranasal Aerosolized Insulin. New England Journal of Medicine, 1985, 312, 1078-1084. | 13.9 | 210 |
| 34 | Pioglitazone treatment activates AMP-activated protein kinase in rat liver and adipose tissue in vivo. Biochemical and Biophysical Research Communications, 2004, 314, 580-585. | 1.0 | 209 |
| 35 | Decreased AMP-activated protein kinase activity is associated with increased inflammation in visceral adipose tissue and with whole-body insulin resistance in morbidly obese humans. Biochemical and Biophysical Research Communications, 2011, 404, 382-387. | 1.0 | 189 |
| 36 | Acute Regulation of Fatty Acid Oxidation and AMP-Activated Protein Kinase in Human Umbilical Vein Endothelial Cells. Circulation Research, 2001, 88, 1276-1282. | 2.0 | 179 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Insulin sensitive and resistant obesity in humans: AMPK activity, oxidative stress, and depot-specific changes in gene expression in adipose tissue. Journal of Lipid Research, 2012, 53, 792-801. | 2.0 | 179 |
| 38 | Insulin Resistance as a Physiological Defense Against Metabolic Stress: Implications for the Management of Subsets of Type 2 Diabetes. Diabetes, 2015, 64, 673-686. | 0.3 | 165 |
| 39 | A Role for the Malonyl-CoA/Long-Chain Acyl-CoA Pathway of Lipid Signaling in the Regulation of Insulin Secretion in Response to Both Fuel and Nonfuel Stimuli. Diabetes, 2004, 53, 1007-1019. | 0.3 | 164 |
| 40 | Activation of Malonyl-CoA Decarboxylase in Rat Skeletal Muscle by Contraction and the AMP-activated Protein Kinase Activator 5-Aminoimidazole-4-carboxamide-1-Î²-d-ribofuranoside. Journal of Biological Chemistry, 2000, 275, 24279-24283. | 1.6 | 162 |
| 41 | Diet-Induced Muscle Insulin Resistance in Rats Is Ameliorated by Acute Dietary Lipid Withdrawal or a Single Bout of Exercise: Parallel Relationship Between Insulin Stimulation of Glucose Uptake and Suppression of Long-Chain Fatty Acyl-CoA. Diabetes, 1997, 46, 2022-2028. | 0.3 | 159 |
| 42 | Interleukin-6 Regulation of AMP-Activated Protein Kinase: Potential Role in the Systemic Response to Exercise and Prevention of the Metabolic Syndrome. Diabetes, 2006, 55, S48-S54. | 0.3 | 158 |
| 43 | Downregulation of AMPK Accompanies Leucine- and Glucose-Induced Increases in Protein Synthesis and Insulin Resistance in Rat Skeletal Muscle. Diabetes, 2010, 59, 2426-2434. | 0.3 | 157 |
| 44 | Palmitate-Induced Apoptosis in Cultured Bovine Retinal Pericytes: Roles of NAD(P)H Oxidase, Oxidant Stress, and Ceramide. Diabetes, 2005, 54, 1838-1845. | 0.3 | 156 |
| 45 | Malonyl-CoA and AMP-activated protein kinase: an expanding partnership. Molecular and Cellular Biochemistry, 2003, 253, 65-70. | 1.4 | 154 |
| 46 | Concurrent regulation of AMP-activated protein kinase and SIRT1 in mammalian cells. Biochemical and Biophysical Research Communications, 2009, 378, 836-841. | 1.0 | 150 |
| 47 | Protein Kinase C-Î² Contributes to Impaired Endothelial Insulin Signaling in Humans With Diabetes Mellitus. Circulation, 2013, 127, 86-95. | 1.6 | 149 |
| 48 | Malonyl-CoA and carnitine in regulation of fat oxidation in human skeletal muscle during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E133-E142. | 1.8 | 143 |
| 49 | Glucagon-Like Peptide-1 (GLP-1) Analog Liraglutide Inhibits Endothelial Cell Inflammation through a Calcium and AMPK Dependent Mechanism. PLoS ONE, 2014, 9, e97554. | 1.1 | 139 |
| 50 | Activation of AMP-Activated Protein Kinase by Interleukin-6 in Rat Skeletal Muscle. Diabetes, 2009, 58, 1953-1960. | 0.3 | 133 |
| 51 | A biochemical and morphologic study of very low density lipoproteins in carbohydrate-induced hypertriglyceridemia. Journal of Clinical Investigation, 1971, 50, 1355-1368. | 3.9 | 132 |
| 52 | Muscle nitrogen metabolism in chronic hepatic insufficiency. Metabolism: Clinical and Experimental, 1976, 25, 427-435. | 1.5 | 131 |
| 53 | AMP-activated protein kinase and coordination of hepatic fatty acid metabolism of starved/carbohydrate-refed rats. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E794-E800. | 1.8 | 130 |
| 54 | Oleate prevents palmitate-induced cytotoxic stress in cardiac myocytes. Biochemical and Biophysical Research Communications, 2005, 336, 309-315. | 1.0 | 129 |

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| 55 | Hyperglycemia and Insulin Resistance: Possible Mechanisms. Annals of the New York Academy of Sciences, 2002, 967, 43-51. | 1.8 | 123 |
| 56 | Synthesis of Essential Amino Acids from Their Î±-Keto Analogues by Perfused Rat Liver and Muscle. Journal of Clinical Investigation, 1973, 52, 2865-2877. | 3.9 | 122 |
| 57 | Insulin inhibits AMPK activity and phosphorylates AMPK Ser485/491 through Akt in hepatocytes, myotubes and incubated rat skeletal muscle. Archives of Biochemistry and Biophysics, 2014, 562, 62-69. | 1.4 | 112 |
| 58 | Dietary polyunsaturated fatty acids enhance hepatic AMP-activated protein kinase activity in rats. Biochemical and Biophysical Research Communications, 2005, 326, 851-858. | 1.0 | 110 |
| 59 | Resveratrol Prevents Oxidative Stress-Induced Senescence and Proliferative Dysfunction by Activating the AMPK-FOXO3 Cascade in Cultured Primary Human Keratinocytes. PLoS ONE, 2015, 10, e0115341. | 1.1 | 109 |
| 60 | Increased malonyl-CoA and diacylglycerol content and reduced AMPK activity accompany insulin resistance induced by glucose infusion in muscle and liver of rats. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E471-E479. | 1.8 | 105 |
| 61 | Diabetes and exercise. American Journal of Medicine, 1981, 70, 201-209. | 0.6 | 104 |
| 62 | Regulation of myofibrillar protein degradation in rat skeletal muscle during brief and prolonged starvation. Metabolism: Clinical and Experimental, 1986, 35, 1121-1127. | 1.5 | 89 |
| 63 | The Effect of AMP-Activated Protein Kinase and Its Activator AICAR on the Metabolism of Human Umbilical Vein Endothelial Cells. Biochemical and Biophysical Research Communications, 1999, 265, 112-115. | 1.0 | 86 |
| 64 | Glucose Autoregulates Its Uptake in Skeletal Muscle: Involvement of AMP-Activated Protein Kinase. Diabetes, 2003, 52, 1635-1640. | 0.3 | 86 |
| 65 | Insulin resistance due to nutrient excess. Cell Cycle, 2011, 10, 3447-3451. | 1.3 | 80 |
| 66 | Alpha and Beta adrenergic effects on metabolism in contracting, perfused muscle. Acta Physiologica Scandinavica, 1982, 116, 215-222. | 2.3 | 77 |
| 67 | Hyperglycemia increases endothelial superoxide that impairs smooth muscle cell Na<sup>+</sup>-K<sup>+</sup>-ATPase activity. American Journal of Physiology - Cell Physiology, 2002, 282, C560-C566. | 2.1 | 76 |
| 68 | Ablation of ARNT/HIF1Î² in Liver Alters Gluconeogenesis, Lipogenic Gene Expression, and Serum Ketones. Cell Metabolism, 2009, 9, 428-439. | 7.2 | 76 |
| 69 | Malonyl-CoA content and fatty acid oxidation in rat muscle and liver in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E259-E265. | 1.8 | 73 |
| 70 | Adipose Triglyceride Lipase Is Implicated in Fuel- and Non-fuel-stimulated Insulin Secretion. Journal of Biological Chemistry, 2009, 284, 16848-16859. | 1.6 | 73 |
| 71 | Regulation of fatty acid oxidation and glucose metabolism in rat soleus muscle: effects of AICAR. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E335-E340. | 1.8 | 72 |
| 72 | Muscle lipid accumulation and protein kinase C activation in the insulin-resistant chronically glucose-infused rat. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E1070-E1076. | 1.8 | 71 |

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| 73 | A novel inverse relationship between metformin-triggered AMPK-SIRT1 signaling and p53 protein abundance in high glucose-exposed HepG2 cells. American Journal of Physiology - Cell Physiology, 2012, 303, C4-C13. | 2.1 | 71 |
| 74 | Acute exercise activates AMPK and eNOS in the mouse aorta. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1255-H1265. | 1.5 | 67 |
| 75 | Association of Fetuin-A With Incident Diabetes Mellitus in Community-Living Older Adults. Circulation, 2012, 125, 2316-2322. | 1.6 | 66 |
| 76 | Mitochondrial Transporter ATP Binding Cassette Mitochondrial Erythroid Is a Novel Gene Required for Cardiac Recovery After Ischemia/Reperfusion. Circulation, 2011, 124, 806-813. | 1.6 | 61 |
| 77 | Activation of AMPâ€activated protein kinase signaling pathway by adiponectin and insulin in mouse adipocytes: requirement of acylâ€CoA synthetases FATP1 and Acsl1 and association with an elevation in AMP/ATP ratio. FASEB Journal, 2010, 24, 4229-4239. | 0.2 | 59 |
| 78 | Metabolic Syndrome: Adenosine Monophosphateâ€activated Protein Kinase and Malonyl Coenzyme A. Obesity, 2006, 14, 25S-33S. | 1.5 | 57 |
| 79 | Impaired fibrinolytic response to exercise in type II diabetes: Effects of exercise and physical training. Metabolism: Clinical and Experimental, 1988, 37, 924-929. | 1.5 | 56 |
| 80 | Metabolic and hormonal interactions between muscle and adipose tissue. Proceedings of the Nutrition Society, 2004, 63, 381-385. | 0.4 | 56 |
| 81 | Insulin Resistance in Type 2 Diabetes: Association with Truncal Obesity, Impaired Fitness, and Atypical Malonyl Coenzyme A Regulation. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 82-87. | 1.8 | 53 |
| 82 | Pioglitazone Acutely Reduces Insulin Secretion and Causes Metabolic Deceleration of the Pancreatic Î²-Cell at Submaximal Glucose Concentrations. Endocrinology, 2009, 150, 3465-3474. | 1.4 | 51 |
| 83 | Mutations in the Juxtamembrane Region of the Insulin Receptor Impair Activation of Phosphatidylinositol 3-Kinase by Insulin. Molecular Endocrinology, 1991, 5, 769-777. | 3.7 | 49 |
| 84 | Dissociation of 5â€² AMP-Activated Protein Kinase Activation and Glucose Uptake Stimulation by Mitochondrial Uncoupling and Hyperosmolar Stress: Differential Sensitivities to Intracellular Ca2+ and Protein Kinase C Inhibition. Biochemical and Biophysical Research Communications, 2001, 285, 1066-1070. | 1.0 | 49 |
| 85 | Improved Insulin Sensitivity 3 Months After RYGB Surgery Is Associated With Increased Subcutaneous Adipose Tissue AMPK Activity and Decreased Oxidative Stress. Diabetes, 2015, 64, 3155-3159. | 0.3 | 48 |
| 86 | Knockdown of GSK3Î² increases basal autophagy and AMPK signalling in nutrient-laden human aortic endothelial cells. Bioscience Reports, 2016, 36, . | 1.1 | 46 |
| 87 | Glucose and palmitate uncouple AMPK from autophagy in human aortic endothelial cells. American Journal of Physiology - Cell Physiology, 2015, 308, C249-C263. | 2.1 | 45 |
| 88 | PKD1 Inhibits AMPKÎ±2 through Phosphorylation of Serine 491 and Impairs Insulin Signaling in Skeletal Muscle Cells. Journal of Biological Chemistry, 2016, 291, 5664-5675. | 1.6 | 45 |
| 89 | The Regulation of Gluconeogenesis. Journal of Biological Chemistry, 1970, 245, 818-824. | 1.6 | 44 |
| 90 | Atherosclerosis and physical activity. Diabetes/metabolism Reviews, 1986, 1, 513-553. | 0.4 | 42 |

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| 91 | Diabetes, Exercise, and Atherosclerosis. Diabetes Care, 1992, 15, 1787-1793. | 4.3 | 42 |
| 92 | Cytosolic citrate and malonyl-CoA regulation in rat muscle in vivo. American Journal of Physiology - Endocrinology and Metabolism, 1999, 276, E1030-E1037. | 1.8 | 40 |
| 93 | Malonyl CoA, Long Chain Fatty Acyl CoA and Insulin Resistance in Skeletal Muscle. Journal of Basic and Clinical Physiology and Pharmacology, 1998, 9, 295-308. | 0.7 | 39 |
| 94 | A beta cell ATGL-lipolysis/adipose tissue axis controls energy homeostasis and body weight via insulin secretion in mice. Diabetologia, 2016, 59, 2654-2663. | 2.9 | 39 |
| 95 | Acute Activation of AMP-Activated Protein Kinase Prevents H2O2-Induced Premature Senescence in Primary Human Keratinocytes. PLoS ONE, 2012, 7, e35092. | 1.1 | 39 |
| 96 | Energy state of bovine cerebral microvessels: Comparison of isolation methods. Microvascular Research, 1988, 35, 167-178. | 1.1 | 38 |
| 97 | Exercise training decreases the concentration of malonyl-CoA and increases the expression and activity of malonyl-CoA decarboxylase in human muscle. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1296-E1303. | 1.8 | 38 |
| 98 | Unraveling the actions of AMP-activated protein kinase in metabolic diseases: Systemic to molecular insights. Metabolism: Clinical and Experimental, 2016, 65, 634-645. | 1.5 | 38 |
| 99 | Exercise and insulin signaling: a historical perspective. Journal of Applied Physiology, 2002, 93, 765-772. | 1.2 | 34 |
| 100 | Association of AMP-activated Protein Kinase Subunits With Glycogen Particles as Revealed In Situ by Immunoelectron Microscopy. Journal of Histochemistry and Cytochemistry, 2009, 57, 963-971. | 1.3 | 32 |
| 101 | Activation of AMP-Activated Protein Kinase Prevents Lipotoxicity in Retinal Pericytes. , 2011, 52, 3630. | | 32 |
| 102 | Intensive insulin for type 2 diabetes: the risk of causing harm. Lancet Diabetes and Endocrinology,the, 2013, 1, 9-10. | 5.5 | 31 |
| 103 | Insulin-like growth factor I binding and receptor kinase in red and white muscle. FEBS Letters, 1988, 234, 257-262. | 1.3 | 30 |
| 104 | Adipose tissue inflammation and insulin resistance: all obese humans are not created equal. Biochemical Journal, 2010, 430, e1-e4. | 1.7 | 30 |
| 105 | Pioglitazone Acutely Reduces Energy Metabolism and Insulin Secretion in Rats. Diabetes, 2013, 62, 2122-2129. | 0.3 | 28 |
| 106 | CELL BIOLOGY: Enhanced: Chewing the Fat--ACC and Energy Balance. Science, 2001, 291, 2558-2559. | 6.0 | 28 |
| 107 | Relation of fatty acid oxidation to gluconeogenesis: Effect of pentenoic acid. Life Sciences, 1968, 7, 1083-1089. | 2.0 | 27 |
| 108 | Ornithine decarboxylase activity in insulin-deficient states. Biochemical Journal, 1980, 192, 725-732. | 3.2 | 27 |

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| 109 | Non-Î²-cell tumor hypoglycemia associated with increased nonsuppressible insulin-like protein (NSILP). American Journal of Medicine, 1979, 66, 154-159. | 0.6 | 25 |
| 110 | What distinguishes adipose tissue of severely obese humans who are insulin sensitive and resistant?. Current Opinion in Lipidology, 2013, 24, 49-56. | 1.2 | 25 |
| 111 | Malonyl-CoA decarboxylase is present in the cytosolic, mitochondrial and peroxisomal compartments of rat hepatocytes. FEBS Letters, 2005, 579, 6581-6586. | 1.3 | 23 |
| 112 | Pancreatic Î²-Cell Dysfunction in Diet-Induced Obese Mice: Roles of AMP-Kinase, Protein Kinase CÎ¼, Mitochondrial and Cholesterol Metabolism, and Alterations in Gene Expression. PLoS ONE, 2016, 11, e0153017. | 1.1 | 23 |
| 113 | Nutrient Excess and AMPK Downregulation in Incubated Skeletal Muscle and Muscle of Glucose Infused Rats. PLoS ONE, 2015, 10, e0127388. | 1.1 | 23 |
| 114 | Exercise and Type I Diabetes Mellitus. Exercise and Sport Sciences Reviews, 1988, 16, 285???304. | 1.6 | 22 |
| 115 | Inhibition of insulin signaling and glycogen synthesis by phorbol dibutyrate in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E8-E15. | 1.8 | 22 |
| 116 | Metabolic characterization of isolated cerebral microvessels: ATP and ADP concentrations. Microvascular Research, 1988, 35, 325-333. | 1.1 | 20 |
| 117 | AMP-activated Protein Kinase (AMPK): Does This Master Regulator of Cellular Energy State Distinguish Insulin Sensitive from Insulin Resistant Obesity?. Current Obesity Reports, 2014, 3, 248-255. | 3.5 | 19 |
| 118 | Nutrient Excess in AMPK Downregulation and Insulin Resistance. Journal of Endocrinology, Diabetes & Obesity, 2013, 1, 1008. | 0.7 | 19 |
| 119 | Insulin and exercise stimulate muscle alpha-aminoisobutyric acid transport by a Na+î—¸K+-ATPase independent pathway. Biochemical and Biophysical Research Communications, 1986, 134, 1342-1349. | 1.0 | 18 |
| 120 | AMP-activated protein kinase and malonyl-CoA: Targets for treating insulin resistance?. Drug Discovery Today: Therapeutic Strategies, 2005, 2, 157-163. | 0.5 | 17 |
| 121 | Overexpression of SIRT1 in Rat Skeletal Muscle Does Not Alter Glucose Induced Insulin Resistance. PLoS ONE, 2015, 10, e0121959. | 1.1 | 17 |
| 122 | Increased Subcutaneous Adipose Tissue Expression of Genes Involved in Glycerolipid-Fatty Acid Cycling in Obese Insulin-Resistant Versus -Sensitive Individuals. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2518-E2528. | 1.8 | 16 |
| 123 | AMPK regulation of the growth of cultured human keratinocytes. Biochemical and Biophysical Research Communications, 2006, 349, 519-524. | 1.0 | 15 |
| 124 | The evolution of insulin resistance in muscle of the glucose infused rat. Archives of Biochemistry and Biophysics, 2011, 509, 133-141. | 1.4 | 15 |
| 125 | Hyperglycemia, Diabetes, and Vascular Disease: An Overview. , 1992, , 3-20. | | 13 |
| 126 | Alterations of nPKC distribution, but normal Akt/PKB activation in denervated rat soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E318-E325. | 1.8 | 12 |

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| 127 | INFLUENCE OF MUSCLE USE ON AMINO ACID METABOLISM. Exercise and Sport Sciences Reviews, 1982, 10, 1???26. | 1.6 | 11 |
| 128 | The postexercise state: Altered effects of insulin on skeletal muscle and their physiologic relevance. Diabetes/metabolism Reviews, 1986, 1, 425-444. | 0.4 | 11 |
| 129 | Effect of diabetes on the induction of ornithine decarboxylase by refeeding. Life Sciences, 1979, 25, 553-559. | 2.0 | 8 |
| 130 | AMP-activated protein kinase and its regulation by adiponectin and interleukin-6. Food Nutrition Research, 2006, 50, 85-91. | 0.3 | 7 |
| 131 | The effects of troglitazone on AMPK in HepG2 cells. Archives of Biochemistry and Biophysics, 2017, 623-624, 49-57. | 1.4 | 7 |
| 132 | Could intranasal insulin be useful in the treatment of non-insulin-dependent diabetes mellitus?. Diabetes Research and Clinical Practice, 1991, 13, 69-75. | 1.1 | 6 |
| 133 | Prevention of type 2 diabetes and its macrovascular complications: whom, when, and how should we treat?. Current Opinion in Endocrinology, Diabetes and Obesity, 2003, 10, 229-236. | 0.6 | 6 |
| 134 | Optimal concentrations of N-decanoyl-N-methylglucamine and sodium dodecyl sulfate allow the extraction and analysis of membrane proteins. Analytical Biochemistry, 2011, 418, 298-300. | 1.1 | 6 |
| 135 | Regulation of muscle malonyl-CoA levels in the nutritionally insulin-resistant desert gerbil,Psammomys obesus. Diabetes/Metabolism Research and Reviews, 2002, 18, 217-223. | 1.7 | 5 |
| 136 | The Endocrine System: Metabolic Effects of the Pancreatic, Adrenal, Thyroidal, and Growth Hormones. , 2003, , 361-422. | | 5 |
| 137 | Response to Comments on Nolan et al. Insulin Resistance as a Physiological Defense Against Metabolic Stress: Implications for the Management of Subsets of Type 2 Diabetes. Diabetes 2015;64:673â€“686. Diabetes, 2015, 64, e38-e39. | 0.3 | 4 |
| 138 | Intermediary Metabolism of Carbohydrate, Protein, and Fat. , 2011, , 25-51. | | 3 |
| 139 | The Metabolic Syndrome. , 2010, , 822-839. | | 2 |
| 140 | Exercise and Metabolic Disorders. Medicine and Sport Science, 1993, 38, 269-298. | 1.4 | 1 |
| 141 | Exercise and Metabolic Disorders. Medicine and Sport Science, 1988, 27, 230-253. | 1.4 | 0 |
| 142 | Insulin Resistance due to Nutrient Excess: Mechanisms of AMPK Downregulation. FASEB Journal, 2013, 27, 701.2. | 0.2 | 0 |