

Neil B Ruderman

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142
papers

18,363
citations

68
h-index

135
g-index

149
ext. papers

19,806
ext. citations

7
avg, IF

6.37
L-index

#	Paper	IF	Citations
142	SIRT3 regulates mitochondrial fatty-acid oxidation by reversible enzyme deacetylation. <i>Nature</i> , 2010 , 464, 121-5	50.4	1143
141	Lipid-induced insulin resistance in human muscle is associated with changes in diacylglycerol, protein kinase C, and I κ B α . <i>Diabetes</i> , 2002 , 51, 2005-11	0.9	1101
140	Enhanced muscle fat oxidation and glucose transport by ACRP30 globular domain: acetyl-CoA carboxylase inhibition and AMP-activated protein kinase activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 16309-13	11.5	797
139	AMPK and SIRT1: a long-standing partnership?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E751-60	6	569
138	SIRT1 modulation of the acetylation status, cytosolic localization, and activity of LKB1. Possible role in AMP-activated protein kinase activation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27628-27635	5.4	563
137	AMPK, insulin resistance, and the metabolic syndrome. <i>Journal of Clinical Investigation</i> , 2013 , 123, 2764-2769	13.9	548
136	Mice lacking adiponectin show decreased hepatic insulin sensitivity and reduced responsiveness to peroxisome proliferator-activated receptor gamma agonists. <i>Journal of Biological Chemistry</i> , 2006 , 281, 2654-60	5.4	484
135	Free fatty acids produce insulin resistance and activate the proinflammatory nuclear factor-kappaB pathway in rat liver. <i>Diabetes</i> , 2005 , 54, 3458-65	0.9	405
134	Muscle glucose metabolism following exercise in the rat: increased sensitivity to insulin. <i>Journal of Clinical Investigation</i> , 1982 , 69, 785-93	15.9	369
133	Role of disulfide bonds in Acrp30/adiponectin structure and signaling specificity. Different oligomers activate different signal transduction pathways. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50810-7	5.4	365
132	AMPK, the metabolic syndrome and cancer. <i>Trends in Pharmacological Sciences</i> , 2005 , 26, 69-76	13.2	355
131	AMP-activated protein kinase is required for the lipid-lowering effect of metformin in insulin-resistant human HepG2 cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 47898-905	5.4	340
130	AMP kinase and malonyl-CoA: targets for therapy of the metabolic syndrome. <i>Nature Reviews Drug Discovery</i> , 2004 , 3, 340-51	64.1	335
129	Glucose and diabetic vascular disease. <i>FASEB Journal</i> , 1992 , 6, 2905-14	0.9	332
128	Contraction-induced changes in acetyl-CoA carboxylase and 5SAMP-activated kinase in skeletal muscle. <i>Journal of Biological Chemistry</i> , 1997 , 272, 13255-61	5.4	321
127	Physical inactivity rapidly induces insulin resistance and microvascular dysfunction in healthy volunteers. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 2650-6	9.4	307
126	AMPK and the biochemistry of exercise: implications for human health and disease. <i>Biochemical Journal</i> , 2009 , 418, 261-75	3.8	296

125	Hyperglycemia-induced apoptosis in human umbilical vein endothelial cells: inhibition by the AMP-activated protein kinase activation. <i>Diabetes</i> , 2002 , 51, 159-67	0.9	296
124	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. <i>Journal of Biological Chemistry</i> , 2002 , 277, 32571-7	5.4	279
123	Malonyl-CoA, fuel sensing, and insulin resistance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 276, E1-E18	6	266
122	Diabetes as an atherogenic factor. <i>Progress in Cardiovascular Diseases</i> , 1984 , 26, 373-412	8.5	260
121	SIRT4 coordinates the balance between lipid synthesis and catabolism by repressing malonyl CoA decarboxylase. <i>Molecular Cell</i> , 2013 , 50, 686-98	17.6	256
120	AICAR administration causes an apparent enhancement of muscle and liver insulin action in insulin-resistant high-fat-fed rats. <i>Diabetes</i> , 2002 , 51, 2886-94	0.9	250
119	Thiazolidinediones can rapidly activate AMP-activated protein kinase in mammalian tissues. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E175-81	6	227
118	Minireview: malonyl CoA, AMP-activated protein kinase, and adiposity. <i>Endocrinology</i> , 2003 , 144, 5166-71	1.8	226
117	AMP-activated protein kinase activators can inhibit the growth of prostate cancer cells by multiple mechanisms. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 321, 161-7	3.4	225
116	AMPK activity is diminished in tissues of IL-6 knockout mice: the effect of exercise. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 449-54	3.4	223
115	AMPK inhibits fatty acid-induced increases in NF-kappaB transactivation in cultured human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 324, 1204-9	3.4	206
114	Deficiency of electron transport chain in human skeletal muscle mitochondria in type 2 diabetes mellitus and obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E49-58	6	196
113	AMP-activated protein kinase is activated as a consequence of lipolysis in the adipocyte: potential mechanism and physiological relevance. <i>Journal of Biological Chemistry</i> , 2008 , 283, 16514-24	5.4	190
112	Intranasal aerosolized insulin. Mixed-meal studies and long-term use in type I diabetes. <i>New England Journal of Medicine</i> , 1985 , 312, 1078-84	59.2	187
111	The Formation of Glutamine and Alanine in Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 1974 , 249, 5500-5506	5.4	187
110	Pioglitazone treatment activates AMP-activated protein kinase in rat liver and adipose tissue in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 580-5	3.4	182
109	AMPK activation: a therapeutic target for type 2 diabetes?. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2014 , 7, 241-53	3.4	167
108	Acute regulation of fatty acid oxidation and amp-activated protein kinase in human umbilical vein endothelial cells. <i>Circulation Research</i> , 2001 , 88, 1276-82	15.7	158

107	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. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 382-7	3.4	153
106	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. <i>Diabetes</i> , 1997 , 46, 2022-8	0.9	152
105	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. <i>Diabetes</i> , 2004 , 53, 1007-19	0.9	151
104	Activation of malonyl-CoA decarboxylase in rat skeletal muscle by contraction and the AMP-activated protein kinase activator 5-aminoimidazole-4-carboxamide-1-beta -D-ribofuranoside. <i>Journal of Biological Chemistry</i> , 2000 , 275, 24279-83	5.4	149
103	Insulin sensitive and resistant obesity in humans: AMPK activity, oxidative stress, and depot-specific changes in gene expression in adipose tissue. <i>Journal of Lipid Research</i> , 2012 , 53, 792-801	6.3	144
102	Palmitate-induced apoptosis in cultured bovine retinal pericytes: roles of NAD(P)H oxidase, oxidant stress, and ceramide. <i>Diabetes</i> , 2005 , 54, 1838-45	0.9	144
101	Insulin resistance as a physiological defense against metabolic stress: implications for the management of subsets of type 2 diabetes. <i>Diabetes</i> , 2015 , 64, 673-86	0.9	139
100	Concurrent regulation of AMP-activated protein kinase and SIRT1 in mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 378, 836-41	3.4	137
99	Interleukin-6 regulation of AMP-activated protein kinase. Potential role in the systemic response to exercise and prevention of the metabolic syndrome. <i>Diabetes</i> , 2006 , 55 Suppl 2, S48-54	0.9	137
98	Malonyl-CoA and AMP-activated protein kinase: an expanding partnership. <i>Molecular and Cellular Biochemistry</i> , 2003 , 253, 65-70	4.2	135
97	Downregulation of AMPK accompanies leucine- and glucose-induced increases in protein synthesis and insulin resistance in rat skeletal muscle. <i>Diabetes</i> , 2010 , 59, 2426-34	0.9	134
96	Malonyl-CoA and carnitine in regulation of fat oxidation in human skeletal muscle during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 288, E133-42	6	123
95	Protein kinase C- β contributes to impaired endothelial insulin signaling in humans with diabetes mellitus. <i>Circulation</i> , 2013 , 127, 86-95	16.7	118
94	Oleate prevents palmitate-induced cytotoxic stress in cardiac myocytes. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 336, 309-15	3.4	118
93	Muscle nitrogen metabolism in chronic hepatic insufficiency. <i>Metabolism: Clinical and Experimental</i> , 1976 , 25, 427-35	12.7	115
92	AMP-activated protein kinase and coordination of hepatic fatty acid metabolism of starved/carbohydrate-refed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E794-800	6	113
91	A biochemical and morphologic study of very low density lipoproteins in carbohydrate-induced hypertriglyceridemia. <i>Journal of Clinical Investigation</i> , 1971 , 50, 1355-68	15.9	109
90	Synthesis of essential amino acids from their alpha-keto analogues by perfused rat liver and muscle. <i>Journal of Clinical Investigation</i> , 1973 , 52, 2865-77	15.9	107

89	Activation of AMP-activated protein kinase by interleukin-6 in rat skeletal muscle: association with changes in cAMP, energy state, and endogenous fuel mobilization. <i>Diabetes</i> , 2009 , 58, 1953-60	0.9	106
88	Glucagon-like peptide-1 (GLP-1) analog liraglutide inhibits endothelial cell inflammation through a calcium and AMPK dependent mechanism. <i>PLoS ONE</i> , 2014 , 9, e97554	3.7	103
87	Dietary polyunsaturated fatty acids enhance hepatic AMP-activated protein kinase activity in rats. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 326, 851-8	3.4	102
86	Hyperglycemia and insulin resistance: possible mechanisms. <i>Annals of the New York Academy of Sciences</i> , 2002 , 967, 43-51	6.5	94
85	Increased malonyl-CoA and diacylglycerol content and reduced AMPK activity accompany insulin resistance induced by glucose infusion in muscle and liver of rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 290, E471-9	6	92
84	Diabetes and exercise. <i>American Journal of Medicine</i> , 1981 , 70, 201-9	2.4	91
83	Resveratrol prevents oxidative stress-induced senescence and proliferative dysfunction by activating the AMPK-FOXO3 cascade in cultured primary human keratinocytes. <i>PLoS ONE</i> , 2015 , 10, e0115341	3.7	90
82	Insulin inhibits AMPK activity and phosphorylates AMPK Ser744 through Akt in hepatocytes, myotubes and incubated rat skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 562, 62-9	4.1	81
81	The effect of AMP-activated protein kinase and its activator AICAR on the metabolism of human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 265, 112-5	3.4	78
80	Regulation of myofibrillar protein degradation in rat skeletal muscle during brief and prolonged starvation. <i>Metabolism: Clinical and Experimental</i> , 1986 , 35, 1121-7	12.7	77
79	Glucose autoregulates its uptake in skeletal muscle: involvement of AMP-activated protein kinase. <i>Diabetes</i> , 2003 , 52, 1635-40	0.9	76
78	Alpha and beta adrenergic effects on metabolism in contracting, perfused muscle. <i>Acta Physiologica Scandinavica</i> , 1982 , 116, 215-22		72
77	Hyperglycemia increases endothelial superoxide that impairs smooth muscle cell Na ⁺ -K ⁺ -ATPase activity. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C560-6	5.4	69
76	Regulation of fatty acid oxidation and glucose metabolism in rat soleus muscle: effects of AICAR. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E335-40	6	68
75	Malonyl-CoA content and fatty acid oxidation in rat muscle and liver in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2000 , 279, E259-65	6	66
74	Adipose triglyceride lipase is implicated in fuel- and non-fuel-stimulated insulin secretion. <i>Journal of Biological Chemistry</i> , 2009 , 284, 16848-16859	5.4	64
73	Ablation of ARNT/HIF1beta in liver alters gluconeogenesis, lipogenic gene expression, and serum ketones. <i>Cell Metabolism</i> , 2009 , 9, 428-39	24.6	63
72	Insulin resistance due to nutrient excess: is it a consequence of AMPK downregulation?. <i>Cell Cycle</i> , 2011 , 10, 3447-51	4.7	62

71	Acute exercise activates AMPK and eNOS in the mouse aorta. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H1255-65	5.2	59
70	Association of fetuin-a with incident diabetes mellitus in community-living older adults: the cardiovascular health study. <i>Circulation</i> , 2012 , 125, 2316-22	16.7	58
69	A novel inverse relationship between metformin-triggered AMPK-SIRT1 signaling and p53 protein abundance in high glucose-exposed HepG2 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C4-C13	5.4	57
68	Muscle lipid accumulation and protein kinase C activation in the insulin-resistant chronically glucose-infused rat. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 277, E1070-6	6	57
67	Activation of AMP-activated protein kinase signaling pathway by adiponectin and insulin in mouse adipocytes: requirement of acyl-CoA synthetases FATP1 and Acsl1 and association with an elevation in AMP/ATP ratio. <i>FASEB Journal</i> , 2010 , 24, 4229-39	0.9	56
66	Mitochondrial transporter ATP binding cassette mitochondrial erythroid is a novel gene required for cardiac recovery after ischemia/reperfusion. <i>Circulation</i> , 2011 , 124, 806-13	16.7	51
65	Metabolic syndrome: adenosine monophosphate-activated protein kinase and malonyl coenzyme A. <i>Obesity</i> , 2006 , 14 Suppl 1, 25S-33S	8	51
64	Metabolic and hormonal interactions between muscle and adipose tissue. <i>Proceedings of the Nutrition Society</i> , 2004 , 63, 381-5	2.9	50
63	Impaired fibrinolytic response to exercise in type II diabetes: effects of exercise and physical training. <i>Metabolism: Clinical and Experimental</i> , 1988 , 37, 924-9	12.7	48
62	Dissociation of 5SAMP-activated protein kinase activation and glucose uptake stimulation by mitochondrial uncoupling and hyperosmolar stress: differential sensitivities to intracellular Ca ²⁺ and protein kinase C inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 285, 1066-70	3.4	46
61	Pioglitazone acutely reduces insulin secretion and causes metabolic deceleration of the pancreatic beta-cell at submaximal glucose concentrations. <i>Endocrinology</i> , 2009 , 150, 3465-74	4.8	45
60	Insulin resistance in type 2 diabetes: association with truncal obesity, impaired fitness, and atypical malonyl coenzyme A regulation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 82-7	5.6	44
59	Mutations in the juxtamembrane region of the insulin receptor impair activation of phosphatidylinositol 3-kinase by insulin. <i>Molecular Endocrinology</i> , 1991 , 5, 769-77		43
58	Diabetes, exercise, and atherosclerosis. <i>Diabetes Care</i> , 1992 , 15, 1787-93	14.6	39
57	Glucose and palmitate uncouple AMPK from autophagy in human aortic endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2015 , 308, C249-63	5.4	37
56	Improved Insulin Sensitivity 3 Months After RYGB Surgery Is Associated With Increased Subcutaneous Adipose Tissue AMPK Activity and Decreased Oxidative Stress. <i>Diabetes</i> , 2015 , 64, 3155-9 ^{0.9}		37
55	PKD1 Inhibits AMPK through Phosphorylation of Serine 491 and Impairs Insulin Signaling in Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5664-5675	5.4	36
54	Exercise training decreases the concentration of malonyl-CoA and increases the expression and activity of malonyl-CoA decarboxylase in human muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 290, E1296-303	6	36

53	Malonyl CoA, long chain fatty acyl CoA and insulin resistance in skeletal muscle. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 1998 , 9, 295-308	1.6	35
52	Atherosclerosis and physical activity. <i>Diabetes/metabolism Reviews</i> , 1986 , 1, 513-53		35
51	Energy state of bovine cerebral microvessels: comparison of isolation methods. <i>Microvascular Research</i> , 1988 , 35, 167-78	3.7	35
50	Acute activation of AMP-activated protein kinase prevents H ₂ O ₂ -induced premature senescence in primary human keratinocytes. <i>PLoS ONE</i> , 2012 , 7, e35092	3.7	34
49	Knockdown of GSK3 β increases basal autophagy and AMPK signalling in nutrient-laden human aortic endothelial cells. <i>Bioscience Reports</i> , 2016 , 36,	4.1	33
48	Unraveling the actions of AMP-activated protein kinase in metabolic diseases: Systemic to molecular insights. <i>Metabolism: Clinical and Experimental</i> , 2016 , 65, 634-645	12.7	31
47	Cytosolic citrate and malonyl-CoA regulation in rat muscle in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 276, E1030-7	6	31
46	The Regulation of Gluconeogenesis. <i>Journal of Biological Chemistry</i> , 1970 , 245, 818-824	5.4	31
45	Association of AMP-activated protein kinase subunits with glycogen particles as revealed in situ by immunoelectron microscopy. <i>Journal of Histochemistry and Cytochemistry</i> , 2009 , 57, 963-71	3.4	30
44	Exercise and insulin signaling: a historical perspective. <i>Journal of Applied Physiology</i> , 2002 , 93, 765-72	3.7	29
43	Activation of AMP-activated protein kinase prevents lipotoxicity in retinal pericytes 2011 , 52, 3630-9		28
42	Intensive insulin for type 2 diabetes: the risk of causing harm. <i>Lancet Diabetes and Endocrinology</i> , 2013 , 1, 9-10	18.1	27
41	Cell biology. Chewing the fat--ACC and energy balance. <i>Science</i> , 2001 , 291, 2558-9	33.3	27
40	A beta cell ATGL-lipolysis/adipose tissue axis controls energy homeostasis and body weight via insulin secretion in mice. <i>Diabetologia</i> , 2016 , 59, 2654-2663	10.3	27
39	Pioglitazone acutely reduces energy metabolism and insulin secretion in rats. <i>Diabetes</i> , 2013 , 62, 2122-90.9		26
38	Insulin-like growth factor I binding and receptor kinase in red and white muscle. <i>FEBS Letters</i> , 1988 , 234, 257-62	3.8	24
37	Relation of fatty acid oxidation tgluconeogenesis: effect of pentenoic acid. <i>Life Sciences</i> , 1968 , 7, 1083-96.8		24
36	Adipose tissue inflammation and insulin resistance: all obese humans are not created equal. <i>Biochemical Journal</i> , 2010 , 430, e1-4	3.8	23

35	What distinguishes adipose tissue of severely obese humans who are insulin sensitive and resistant?. <i>Current Opinion in Lipidology</i> , 2013 , 24, 49-56	4.4	22
34	Malonyl-CoA decarboxylase is present in the cytosolic, mitochondrial and peroxisomal compartments of rat hepatocytes. <i>FEBS Letters</i> , 2005 , 579, 6581-6	3.8	21
33	Ornithine decarboxylase activity in insulin-deficient states. <i>Biochemical Journal</i> , 1980 , 192, 725-32		21
32	Nutrient Excess and AMPK Downregulation in Incubated Skeletal Muscle and Muscle of Glucose Infused Rats. <i>PLoS ONE</i> , 2015 , 10, e0127388	3.7	21
31	Metabolic characterization of isolated cerebral microvessels: ATP and ADP concentrations. <i>Microvascular Research</i> , 1988 , 35, 325-33	3.7	19
30	Non-beta-cell tumor hypoglycemia associated with increased nonsuppressible insulin-like protein (NSILP). <i>American Journal of Medicine</i> , 1979 , 66, 154-9	2.4	19
29	AMP-activated Protein Kinase (AMPK): Does This Master Regulator of Cellular Energy State Distinguish Insulin Sensitive from Insulin Resistant Obesity?. <i>Current Obesity Reports</i> , 2014 , 3, 248-55	8.4	17
28	Inhibition of insulin signaling and glycogen synthesis by phorbol dibutyrate in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E8-E15	6	17
27	Insulin and exercise stimulate muscle alpha-aminoisobutyric acid transport by a Na ⁺ -K ⁺ -ATPase independent pathway. <i>Biochemical and Biophysical Research Communications</i> , 1986 , 134, 1342-9	3.4	17
26	Nutrient Excess in AMPK Downregulation and Insulin Resistance 2013 , 1, 1008		17
25	Pancreatic βCell Dysfunction in Diet-Induced Obese Mice: Roles of AMP-Kinase, Protein Kinase Cβ Mitochondrial and Cholesterol Metabolism, and Alterations in Gene Expression. <i>PLoS ONE</i> , 2016 , 11, e0153017	3.7	16
24	Overexpression of SIRT1 in rat skeletal muscle does not alter glucose induced insulin resistance. <i>PLoS ONE</i> , 2015 , 10, e0121959	3.7	15
23	The evolution of insulin resistance in muscle of the glucose infused rat. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 509, 133-41	4.1	15
22	AMPK regulation of the growth of cultured human keratinocytes. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 349, 519-24	3.4	15
21	Exercise and Type I Diabetes Mellitus. <i>Exercise and Sport Sciences Reviews</i> , 1988 , 16, 285-304	6.7	15
20	AMP-activated protein kinase and malonyl-CoA: Targets for treating insulin resistance?. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2005 , 2, 157-163		14
19	Increased subcutaneous adipose tissue expression of genes involved in glycerolipid-fatty acid cycling in obese insulin-resistant versus -sensitive individuals. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014 , 99, E2518-28	5.6	13
18	Hyperglycemia, Diabetes, and Vascular Disease: An Overview 1992 , 3-20		13

17	Alterations of nPKC distribution, but normal Akt/PKB activation in denervated rat soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 283, E318-25	6	11
16	The postexercise state: altered effects of insulin on skeletal muscle and their physiologic relevance. <i>Diabetes/metabolism Reviews</i> , 1986 , 1, 425-44		8
15	AMP-activated protein kinase and its regulation by adiponectin and interleukin-6. <i>Food Nutrition Research</i> , 2006 , 50, 85-91		7
14	The effects of troglitazone on AMPK in HepG2 cells. <i>Archives of Biochemistry and Biophysics</i> , 2017 , 623-624, 49-57	4.1	6
13	Optimal concentrations of N-decanoyl-N-methylglucamine and sodium dodecyl sulfate allow the extraction and analysis of membrane proteins. <i>Analytical Biochemistry</i> , 2011 , 418, 298-300	3.1	6
12	Could intranasal insulin be useful in the treatment of non-insulin-dependent diabetes mellitus?. <i>Diabetes Research and Clinical Practice</i> , 1991 , 13, 69-75	7.4	6
11	Effect of diabetes on the induction of ornithine decarboxylase by refeeding. <i>Life Sciences</i> , 1979 , 25, 553-68		5
10	INFLUENCE OF MUSCLE USE ON AMINO ACID METABOLISM. <i>Exercise and Sport Sciences Reviews</i> , 1982 , 10, 177-26	6.7	5
9	The Endocrine System: Metabolic Effects of the Pancreatic, Adrenal, Thyroidal, and Growth Hormones 2003 , 361-422		5
8	Regulation of muscle malonyl-CoA levels in the nutritionally insulin-resistant desert gerbil, <i>Psammomys obesus</i> . <i>Diabetes/Metabolism Research and Reviews</i> , 2002 , 18, 217-23	7.5	4
7	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. <i>Diabetes</i> 2015;64:673-686. <i>Diabetes</i> , 2015 , 64, e38-9	0.9	3
6	Prevention of type 2 diabetes and its macrovascular complications: whom, when, and how should we treat?. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2003 , 10, 229-236		2
5	The Metabolic Syndrome 2010 , 822-839		2
4	Intermediary Metabolism of Carbohydrate, Protein, and Fat 2011 , 25-51		2
3	Exercise and Metabolic Disorders. <i>Medicine and Sport Science</i> , 1993 , 38, 269-298		1
2	Exercise and Metabolic Disorders. <i>Medicine and Sport Science</i> , 1988 , 27, 230-253		
1	Insulin Resistance due to Nutrient Excess: Mechanisms of AMPK Downregulation. <i>FASEB Journal</i> , 2013 , 27, 701.2	0.9	