

Michael J Quon

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189
papers

22,496
citations

74
h-index

148
g-index

197
ext. papers

24,084
ext. citations

5.8
avg. IF

6.63
L-index

#	Paper	IF	Citations
189	Quantitative insulin sensitivity check index: a simple, accurate method for assessing insulin sensitivity in humans. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 2402-10	5.6	2756
188	Reciprocal relationships between insulin resistance and endothelial dysfunction: molecular and pathophysiological mechanisms. <i>Circulation</i> , 2006 , 113, 1888-904	16.7	1189
187	Current approaches for assessing insulin sensitivity and resistance in vivo: advantages, limitations, and appropriate usage. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E15-26	6	888
186	Adiponectin stimulates production of nitric oxide in vascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 45021-6	5.4	746
185	Roles for insulin receptor, PI3-kinase, and Akt in insulin-signaling pathways related to production of nitric oxide in human vascular endothelial cells. <i>Circulation</i> , 2000 , 101, 1539-45	16.7	631
184	Cardiovascular actions of insulin. <i>Endocrine Reviews</i> , 2007 , 28, 463-91	27.2	591
183	Serine phosphorylation of insulin receptor substrate 1 by inhibitor kappa B kinase complex. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48115-21	5.4	553
182	New insights into the mechanisms of polyphenols beyond antioxidant properties; lessons from the green tea polyphenol, epigallocatechin 3-gallate. <i>Redox Biology</i> , 2014 , 2, 187-95	11.3	474
181	Amyloid beta oligomers induce impairment of neuronal insulin receptors. <i>FASEB Journal</i> , 2008 , 22, 246-60	9	431
180	Insulin-stimulated activation of eNOS is independent of Ca ²⁺ but requires phosphorylation by Akt at Ser(1179). <i>Journal of Biological Chemistry</i> , 2001 , 276, 30392-8	5.4	414
179	Brain insulin receptors and spatial memory. Correlated changes in gene expression, tyrosine phosphorylation, and signaling molecules in the hippocampus of water maze trained rats. <i>Journal of Biological Chemistry</i> , 1999 , 274, 34893-902	5.4	389
178	Insulin and the insulin receptor in experimental models of learning and memory. <i>European Journal of Pharmacology</i> , 2004 , 490, 71-81	5.3	351
177	Physiological role of Akt in insulin-stimulated translocation of GLUT4 in transfected rat adipose cells. <i>Molecular Endocrinology</i> , 1997 , 11, 1881-90		314
176	Repeatability characteristics of simple indices of insulin resistance: implications for research applications. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 5457-64	5.6	299
175	High density lipoprotein-induced endothelial nitric-oxide synthase activation is mediated by Akt and MAP kinases. <i>Journal of Biological Chemistry</i> , 2003 , 278, 9142-9	5.4	289
174	Inflammatory markers and the metabolic syndrome: insights from therapeutic interventions. <i>Journal of the American College of Cardiology</i> , 2005 , 46, 1978-85	15.1	287
173	EGCG, a green tea polyphenol, improves endothelial function and insulin sensitivity, reduces blood pressure, and protects against myocardial I/R injury in SHR. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E1378-87	6	262

172	Epigallocatechin-3-gallate (EGCG), a green tea polyphenol, suppresses hepatic gluconeogenesis through 5PAMP-activated protein kinase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30143-9	5.4	252
171	Inhibition of insulin sensitivity by free fatty acids requires activation of multiple serine kinases in 3T3-L1 adipocytes. <i>Molecular Endocrinology</i> , 2004 , 18, 2024-34		250
170	Insulin stimulates both endothelin and nitric oxide activity in the human forearm. <i>Circulation</i> , 1999 , 100, 820-5	16.7	249
169	Additive beneficial effects of losartan combined with simvastatin in the treatment of hypercholesterolemic, hypertensive patients. <i>Circulation</i> , 2004 , 110, 3687-92	16.7	243
168	Inhibition of phosphatidylinositol 3-kinase enhances mitogenic actions of insulin in endothelial cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1794-9	5.4	242
167	Insulin resistance in spontaneously hypertensive rats is associated with endothelial dysfunction characterized by imbalance between NO and ET-1 production. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H813-22	5.2	236
166	Mutations in the insulin receptor gene. <i>Endocrine Reviews</i> , 1992 , 13, 566-95	27.2	236
165	Adiponectin and cardiovascular disease: response to therapeutic interventions. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 531-8	15.1	227
164	S6K directly phosphorylates IRS-1 on Ser-270 to promote insulin resistance in response to TNF-(alpha) signaling through IKK2. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35375-82	5.4	203
163	Aspirin inhibits serine phosphorylation of insulin receptor substrate 1 in tumor necrosis factor-treated cells through targeting multiple serine kinases. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24944-50	5.4	203
162	Leptin and cardiovascular disease: response to therapeutic interventions. <i>Circulation</i> , 2008 , 117, 3238-49	16.7	198
161	Citrus polyphenol hesperidin stimulates production of nitric oxide in endothelial cells while improving endothelial function and reducing inflammatory markers in patients with metabolic syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E782-92	5.6	190
160	Protein kinase C-zeta phosphorylates insulin receptor substrate-1 and impairs its ability to activate phosphatidylinositol 3-kinase in response to insulin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3543-9	5.4	190
159	Insulin receptor substrate-1 and phosphoinositide-dependent kinase-1 are required for insulin-stimulated production of nitric oxide in endothelial cells. <i>Molecular Endocrinology</i> , 2002 , 16, 1931-42		187
158	Assessing the predictive accuracy of QUICKI as a surrogate index for insulin sensitivity using a calibration model. <i>Diabetes</i> , 2005 , 54, 1914-25	0.9	181
157	Additive beneficial effects of fenofibrate combined with atorvastatin in the treatment of combined hyperlipidemia. <i>Journal of the American College of Cardiology</i> , 2005 , 45, 1649-53	15.1	179
156	Molecular and physiologic actions of insulin related to production of nitric oxide in vascular endothelium. <i>Current Diabetes Reports</i> , 2003 , 3, 279-88	5.6	176
155	Epigallocatechin gallate, a green tea polyphenol, mediates NO-dependent vasodilation using signaling pathways in vascular endothelium requiring reactive oxygen species and Fyn. <i>Journal of Biological Chemistry</i> , 2007 , 282, 13736-45	5.4	174

154	FOXO1 represses peroxisome proliferator-activated receptor-gamma1 and -gamma2 gene promoters in primary adipocytes. A novel paradigm to increase insulin sensitivity. <i>Journal of Biological Chemistry</i> , 2006 , 281, 19881-91	5.4	172
153	Atorvastatin causes insulin resistance and increases ambient glycemia in hypercholesterolemic patients. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1209-1216	15.1	165
152	Insulin signalling: metabolic pathways and mechanisms for specificity. <i>Cellular Signalling</i> , 1999 , 11, 563-74	9	162
151	Caveolin-1 interacts with the insulin receptor and can differentially modulate insulin signaling in transfected Cos-7 cells and rat adipose cells. <i>Molecular Endocrinology</i> , 1999 , 13, 2013-24		160
150	Beneficial effects of fenofibrate to improve endothelial dysfunction and raise adiponectin levels in patients with primary hypertriglyceridemia. <i>Diabetes Care</i> , 2005 , 28, 1419-24	14.6	159
149	Consequences of lipid droplet coat protein downregulation in liver cells: abnormal lipid droplet metabolism and induction of insulin resistance. <i>Diabetes</i> , 2008 , 57, 2037-45	0.9	149
148	A mathematical model of metabolic insulin signaling pathways. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2002 , 283, E1084-101	6	138
147	Cocoa consumption for 2 wk enhances insulin-mediated vasodilatation without improving blood pressure or insulin resistance in essential hypertension. <i>American Journal of Clinical Nutrition</i> , 2008 , 88, 1685-96	7	126
146	Vascular and metabolic effects of combined therapy with ramipril and simvastatin in patients with type 2 diabetes. <i>Hypertension</i> , 2005 , 45, 1088-93	8.5	126
145	Tyr(612) and Tyr(632) in human insulin receptor substrate-1 are important for full activation of insulin-stimulated phosphatidylinositol 3-kinase activity and translocation of GLUT4 in adipose cells. <i>Endocrinology</i> , 2001 , 142, 2833-40	4.8	126
144	Comparison between surrogate indexes of insulin sensitivity and resistance and hyperinsulinemic euglycemic clamp estimates in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E261-70	6	122
143	An integrated view of insulin resistance and endothelial dysfunction. <i>Endocrinology and Metabolism Clinics of North America</i> , 2008 , 37, 685-711, ix-x	5.5	121
142	High-dose oral vitamin C partially replenishes vitamin C levels in patients with Type 2 diabetes and low vitamin C levels but does not improve endothelial dysfunction or insulin resistance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H137-45	5.2	120
141	Insulin action and insulin resistance in vascular endothelium. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2007 , 10, 523-30	3.8	120
140	Insulin receptor dysfunction impairs cellular clearance of neurotoxic oligomeric α {beta}. <i>Journal of Biological Chemistry</i> , 2009 , 284, 18742-53	5.4	109
139	Phosphorylation of PTP1B at Ser(50) by Akt impairs its ability to dephosphorylate the insulin receptor. <i>Molecular Endocrinology</i> , 2001 , 15, 1768-80		106
138	Protein-tyrosine phosphatases PTP1B and syp are modulators of insulin-stimulated translocation of GLUT4 in transfected rat adipose cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8026-31	5.4	105
137	Impaired insulin secretion in the Turner metabolic syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 3516-20	5.6	105

136	Differential metabolic effects of distinct statins. <i>Atherosclerosis</i> , 2011 , 215, 1-8	3.1	103
135	Fish oil supplementation improves endothelial function in normoglycemic offspring of patients with type 2 diabetes. <i>Atherosclerosis</i> , 2009 , 206, 569-74	3.1	97
134	QUICKI is a useful index of insulin sensitivity in subjects with hypertension. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003 , 284, E804-12	6	97
133	Non-insulin-mediated glucose disappearance in subjects with IDDM. Discordance between experimental results and minimal model analysis. <i>Diabetes</i> , 1994 , 43, 890-6	0.9	97
132	SirT1 enhances survival of human osteoarthritic chondrocytes by repressing protein tyrosine phosphatase 1B and activating the insulin-like growth factor receptor pathway. <i>Arthritis and Rheumatism</i> , 2010 , 62, 1383-92		95
131	Simvastatin improves flow-mediated dilation but reduces adiponectin levels and insulin sensitivity in hypercholesterolemic patients. <i>Diabetes Care</i> , 2008 , 31, 776-82	14.6	94
130	Tyrosine kinase-deficient mutant human insulin receptors (Met1153-->Ile) overexpressed in transfected rat adipose cells fail to mediate translocation of epitope-tagged GLUT4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 5587-91	11.5	94
129	Differential metabolic effects of pravastatin and simvastatin in hypercholesterolemic patients. <i>Atherosclerosis</i> , 2009 , 204, 483-90	3.1	93
128	Protein kinase C-zeta and phosphoinositide-dependent protein kinase-1 are required for insulin-induced activation of ERK in rat adipocytes. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30495-500	5.4	93
127	Peroxisome proliferator-activated receptor-gamma represses GLUT4 promoter activity in primary adipocytes, and rosiglitazone alleviates this effect. <i>Journal of Biological Chemistry</i> , 2003 , 278, 30614-23	5.4	90
126	Modulation of adiponectin as a potential therapeutic strategy. <i>Atherosclerosis</i> , 2014 , 233, 721-728	3.1	89
125	Anti-inflammatory and metabolic effects of candesartan in hypertensive patients. <i>International Journal of Cardiology</i> , 2006 , 108, 96-100	3.2	89
124	Insulin action in vascular endothelium: potential mechanisms linking insulin resistance with hypertension. <i>Diabetes, Obesity and Metabolism</i> , 2000 , 2, 285-92	6.7	89
123	Dehydroepiandrosterone mimics acute actions of insulin to stimulate production of both nitric oxide and endothelin 1 via distinct phosphatidylinositol 3-kinase- and mitogen-activated protein kinase-dependent pathways in vascular endothelium. <i>Molecular Endocrinology</i> , 2006 , 20, 1153-63		85
122	Beneficial vascular and metabolic effects of peroxisome proliferator-activated receptor-alpha activators. <i>Hypertension</i> , 2005 , 46, 1086-92	8.5	83
121	Epigallocatechin gallate induces expression of heme oxygenase-1 in endothelial cells via p38 MAPK and Nrf-2 that suppresses proinflammatory actions of TNF- α . <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 1134-45	6.3	82
120	Transfection of DNA into isolated rat adipose cells by electroporation: evaluation of promoter activity in transfected adipose cells which are highly responsive to insulin after one day in culture. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 194, 338-46	3.4	82
119	Treatment of spontaneously hypertensive rats with rosiglitazone and/or enalapril restores balance between vasodilator and vasoconstrictor actions of insulin with simultaneous improvement in hypertension and insulin resistance. <i>Diabetes</i> , 2006 , 55, 3594-603	0.9	81

118	Ghrelin has novel vascular actions that mimic PI 3-kinase-dependent actions of insulin to stimulate production of NO from endothelial cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007 , 292, E756-64	6	80
117	Green tea polyphenol epigallocatechin gallate reduces endothelin-1 expression and secretion in vascular endothelial cells: roles for AMP-activated protein kinase, Akt, and FOXO1. <i>Endocrinology</i> , 2010 , 151, 103-14	4.8	79
116	Role of lipotoxicity in endothelial dysfunction. <i>Heart Failure Clinics</i> , 2012 , 8, 589-607	3.3	73
115	Mechanisms for food polyphenols to ameliorate insulin resistance and endothelial dysfunction: therapeutic implications for diabetes and its cardiovascular complications. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E679-86	6	67
114	Phosphorylation of critical serine residues in Gem separates cytoskeletal reorganization from down-regulation of calcium channel activity. <i>Molecular and Cellular Biology</i> , 2004 , 24, 651-61	4.8	65
113	Does reversal of oxidative stress and inflammation provide vascular protection?. <i>Cardiovascular Research</i> , 2009 , 81, 649-59	9.9	62
112	Reciprocal relationships between abnormal metabolic parameters and endothelial dysfunction. <i>Current Opinion in Lipidology</i> , 2007 , 18, 58-65	4.4	61
111	Vascular and metabolic actions of the green tea polyphenol epigallocatechin gallate. <i>Current Medicinal Chemistry</i> , 2015 , 22, 59-69	4.3	61
110	Phosphorylation of Ser24 in the pleckstrin homology domain of insulin receptor substrate-1 by Mouse Pelle-like kinase/interleukin-1 receptor-associated kinase: cross-talk between inflammatory signaling and insulin signaling that may contribute to insulin resistance. <i>Journal of Biological Chemistry</i> , 2005 , 280, 23173-83	5.4	60
109	Glucose activates protein kinase C-zeta /lambda through proline-rich tyrosine kinase-2, extracellular signal-regulated kinase, and phospholipase D: a novel mechanism for activating glucose transporter translocation. <i>Journal of Biological Chemistry</i> , 2001 , 276, 35537-45	5.4	58
108	Distinct vascular and metabolic effects of different classes of anti-hypertensive drugs. <i>International Journal of Cardiology</i> , 2010 , 140, 73-81	3.2	57
107	Cyclic nucleotide phosphodiesterase 3B is a downstream target of protein kinase B and may be involved in regulation of effects of protein kinase B on thymidine incorporation in FDCP2 cells. <i>Journal of Immunology</i> , 2000 , 164, 4678-88	5.3	55
106	PKC- η Mediates Insulin Effects on Glucose Transport in Cultured Preadipocyte-Derived Human Adipocytes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 716-723	5.6	55
105	Additive beneficial effects of fenofibrate combined with candesartan in the treatment of hypertriglyceridemic hypertensive patients. <i>Diabetes Care</i> , 2006 , 29, 195-201	14.6	54
104	Glucose activates mitogen-activated protein kinase (extracellular signal-regulated kinase) through proline-rich tyrosine kinase-2 and the Glut1 glucose transporter. <i>Journal of Biological Chemistry</i> , 2000 , 275, 40817-26	5.4	54
103	Action of insulin receptor substrate-3 (IRS-3) and IRS-4 to stimulate translocation of GLUT4 in rat adipose cells. <i>Molecular Endocrinology</i> , 1999 , 13, 505-14		54
102	Exenatide treatment for 6 months improves insulin sensitivity in adults with type 1 diabetes. <i>Diabetes Care</i> , 2014 , 37, 666-70	14.6	53
101	Endothelial dysfunction in mice with streptozotocin-induced type 1 diabetes is opposed by compensatory overexpression of cyclooxygenase-2 in the vasculature. <i>Endocrinology</i> , 2009 , 150, 849-61	4.8	52

100	Escherichia coli K1 internalization via caveolae requires caveolin-1 and protein kinase Calpha interaction in human brain microvascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 50716-24	5.4	52
99	Oral glucosamine for 6 weeks at standard doses does not cause or worsen insulin resistance or endothelial dysfunction in lean or obese subjects. <i>Diabetes</i> , 2006 , 55, 3142-50	0.9	50
98	Mouse 3-phosphoinositide-dependent protein kinase-1 undergoes dimerization and trans-phosphorylation in the activation loop. <i>Journal of Biological Chemistry</i> , 2003 , 278, 42913-9	5.4	50
97	Cellular Stress, Excessive Apoptosis, and the Effect of Metformin in a Mouse Model of Type 2 Diabetic Embryopathy. <i>Diabetes</i> , 2015 , 64, 2526-36	0.9	49
96	Negative regulation of insulin-stimulated mitogen-activated protein kinase signaling by Grb10. <i>Molecular Endocrinology</i> , 2004 , 18, 350-8		47
95	Vasodilator response to systemic but not to local hyperinsulinemia in the human forearm. <i>Hypertension</i> , 1998 , 32, 740-5	8.5	46
94	A phosphotyrosyl mimetic peptide reverses impairment of insulin-stimulated translocation of GLUT4 caused by overexpression of PTP1B in rat adipose cells. <i>Biochemistry</i> , 1999 , 38, 384-9	3.2	46
93	Combination therapy for treatment or prevention of atherosclerosis: focus on the lipid-RAAS interaction. <i>Atherosclerosis</i> , 2010 , 209, 307-13	3.1	45
92	Comparison between surrogate indexes of insulin sensitivity/resistance and hyperinsulinemic euglycemic clamp estimates in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E1023-9	6	45
91	Tumor necrosis factor-alpha antagonism improves vasodilation during hyperinsulinemia in metabolic syndrome. <i>Diabetes Care</i> , 2008 , 31, 1439-41	14.6	45
90	Differential metabolic effects of rosuvastatin and pravastatin in hypercholesterolemic patients. <i>International Journal of Cardiology</i> , 2013 , 166, 509-15	3.2	44
89	Significant differential effects of omega-3 fatty acids and fenofibrate in patients with hypertriglyceridemia. <i>Atherosclerosis</i> , 2012 , 220, 537-44	3.1	41
88	Effects of overexpression of glutamine:fructose-6-phosphate amidotransferase (GFAT) and glucosamine treatment on translocation of GLUT4 in rat adipose cells. <i>Molecular and Cellular Endocrinology</i> , 1997 , 135, 67-77	4.4	41
87	Additive beneficial cardiovascular and metabolic effects of combination therapy with ramipril and candesartan in hypertensive patients. <i>European Heart Journal</i> , 2007 , 28, 1440-7	9.5	41
86	Secretion of Annexin II via activation of insulin receptor and insulin-like growth factor receptor. <i>Journal of Biological Chemistry</i> , 2003 , 278, 4205-15	5.4	41
85	C-reactive protein inhibits insulin activation of endothelial nitric oxide synthase via the immunoreceptor tyrosine-based inhibition motif of FcgammaRIIB and SHIP-1. <i>Circulation Research</i> , 2009 , 104, 1275-82	15.7	40
84	The effects of simvastatin, losartan, and combined therapy on soluble CD40 ligand in hypercholesterolemic, hypertensive patients. <i>Atherosclerosis</i> , 2007 , 190, 205-11	3.1	40
83	Insulin receptor binding kinetics: modeling and simulation studies. <i>Journal of Theoretical Biology</i> , 2000 , 205, 355-64	2.3	40

82	Evidence for several independent genetic variants affecting lipoprotein (a) cholesterol levels. <i>Human Molecular Genetics</i> , 2015 , 24, 2390-400	5.6	39
81	Deterioration of glucose homeostasis in type 2 diabetic patients one year after beginning of statins therapy. <i>Atherosclerosis</i> , 2012 , 223, 197-203	3.1	39
80	PKCdelta-mediated IRS-1 Ser24 phosphorylation negatively regulates IRS-1 function. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 349, 976-86	3.4	39
79	Insulin receptor substrate-2 (IRS-2) can mediate the action of insulin to stimulate translocation of GLUT4 to the cell surface in rat adipose cells. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29829-33	5.4	38
78	QUICKI is a useful and accurate index of insulin sensitivity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 949-51	5.6	38
77	Toll-like receptor 2 mediates high-fat diet-induced impairment of vasodilator actions of insulin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E1077-88	6	37
76	Protein kinase A-alpha directly phosphorylates FoxO1 in vascular endothelial cells to regulate expression of vascular cellular adhesion molecule-1 mRNA. <i>Journal of Biological Chemistry</i> , 2011 , 286, 6423-32	5.4	37
75	Efonidipine simultaneously improves blood pressure, endothelial function, and metabolic parameters in nondiabetic patients with hypertension. <i>Diabetes Care</i> , 2007 , 30, 1605-7	14.6	37
74	Insulin signal transduction pathways. <i>Trends in Endocrinology and Metabolism</i> , 1994 , 5, 369-76	8.8	37
73	Treatment of spontaneously hypertensive rats with rosiglitazone ameliorates cardiovascular pathophysiology via antioxidant mechanisms in the vasculature. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E685-94	6	36
72	Dehydroepiandrosterone stimulates phosphorylation of FoxO1 in vascular endothelial cells via phosphatidylinositol 3-kinase- and protein kinase A-dependent signaling pathways to regulate ET-1 synthesis and secretion. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29228-38	5.4	36
71	Substitution of the autophosphorylation site Thr516 with a negatively charged residue confers constitutive activity to mouse 3-phosphoinositide-dependent protein kinase-1 in cells. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16632-8	5.4	36
70	Globular adiponectin counteracts VCAM-1-mediated monocyte adhesion via AdipoR1/NF-B/COX-2 signaling in human aortic endothelial cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E1143-54	6	35
69	MKR mice are resistant to the metabolic actions of both insulin and adiponectin: discordance between insulin resistance and adiponectin responsiveness. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 291, E298-305	6	35
68	A novel T608R missense mutation in insulin receptor substrate-1 identified in a subject with type 2 diabetes impairs metabolic insulin signaling. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 1468-75	5.6	35
67	Vascular and metabolic effects of treatment of combined hyperlipidemia: focus on statins and fibrates. <i>International Journal of Cardiology</i> , 2008 , 124, 149-59	3.2	34
66	The luteinizing hormone-releasing hormone inhibits the anti-apoptotic activity of insulin-like growth factor-1 in pituitary alphaT3 cells by protein kinase Calpha-mediated negative regulation of Akt. <i>Journal of Biological Chemistry</i> , 2004 , 279, 52500-16	5.4	34
65	G(s)alpha deficiency in adipose tissue leads to a lean phenotype with divergent effects on cold tolerance and diet-induced thermogenesis. <i>Cell Metabolism</i> , 2010 , 11, 320-30	24.6	33

64	Insulin impairs endothelium-dependent vasodilation independent of insulin sensitivity or lipid profile. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004 , 286, H76-82	5.2	33
63	ASK1 mediates the teratogenicity of diabetes in the developing heart by inducing ER stress and inhibiting critical factors essential for cardiac development. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E487-99	6	32
62	Effects of overexpressing wild-type and mutant PDGF receptors on translocation of GLUT4 in transfected rat adipose cells. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 226, 587-94	3.4	32
61	Vascular, metabolic, and inflammatory abnormalities in normoglycemic offspring of patients with type 2 diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2007 , 56, 413-9	12.7	31
60	Insulin stimulates increased catalytic activity of phosphoinositide-dependent kinase-1 by a phosphorylation-dependent mechanism. <i>Biochemistry</i> , 2001 , 40, 11851-9	3.2	31
59	Tyr612 and Tyr632 in Human Insulin Receptor Substrate-1 Are Important for Full Activation of Insulin-Stimulated Phosphatidylinositol 3-Kinase Activity and Translocation of GLUT4 in Adipose Cells		31
58	Effects of fenofibrate therapy on circulating adipocytokines in patients with primary hypertriglyceridemia. <i>Atherosclerosis</i> , 2011 , 214, 144-7	3.1	30
57	Are statins effective for simultaneously treating dyslipidemias and hypertension?. <i>Atherosclerosis</i> , 2008 , 196, 1-8	3.1	30
56	Protein kinase C-zeta phosphorylates insulin receptor substrate-1, -3, and -4 but not -2: isoform specific determinants of specificity in insulin signaling. <i>Endocrinology</i> , 2008 , 149, 2451-8	4.8	28
55	Essential role for membrane lipid rafts in interleukin-1beta-induced nitric oxide release from insulin-secreting cells: potential regulation by caveolin-1+. <i>Diabetes</i> , 2005 , 54, 2576-85	0.9	28
54	PAX3/forkhead homolog in rhabdomyosarcoma oncoprotein activates glucose transporter 4 gene expression in vivo and in vitro. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 5312-24	5.6	28
53	Overexpression of protein tyrosine phosphatase-alpha (PTP-alpha) but not PTP-kappa inhibits translocation of GLUT4 in rat adipose cells. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 255, 200-7	3.4	28
52	Improvement of vascular insulin sensitivity by downregulation of GRK2 mediates exercise-induced alleviation of hypertension in spontaneously hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H1111-9	5.2	27
51	Diagnosing insulin resistance by simple quantitative methods in subjects with normal glucose metabolism. <i>Diabetes Care</i> , 2004 , 27, 1247-8; author reply 1249	14.6	27
50	Sorbitol activates atypical protein kinase C and GLUT4 glucose transporter translocation/glucose transport through proline-rich tyrosine kinase-2, the extracellular signal-regulated kinase pathway and phospholipase D. <i>Biochemical Journal</i> , 2002 , 362, 665-74	3.8	27
49	B4GALNT3 expression predicts a favorable prognosis and suppresses cell migration and invasion via Integrin signaling in neuroblastoma. <i>American Journal of Pathology</i> , 2011 , 179, 1394-404	5.8	26
48	Alpha2-Heremans Schmid glycoprotein inhibits insulin-stimulated Elk-1 phosphorylation, but not glucose transport, in rat adipose cells. <i>Endocrinology</i> , 1998 , 139, 4147-54	4.8	25
47	Potentially important considerations in choosing specific statin treatments to reduce overall morbidity and mortality. <i>International Journal of Cardiology</i> , 2013 , 167, 1696-702	3.2	24

46	Deletion of interleukin 1 receptor-associated kinase 1 () improves glucose tolerance primarily by increasing insulin sensitivity in skeletal muscle. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12339-12350	5.4	23
45	Additive beneficial effects of atorvastatin combined with amlodipine in patients with mild-to-moderate hypertension. <i>International Journal of Cardiology</i> , 2011 , 146, 319-25	3.2	23
44	Combination pravastatin and valsartan treatment has additive beneficial effects to simultaneously improve both metabolic and cardiovascular phenotypes beyond that of monotherapy with either drug in patients with primary hypercholesterolemia. <i>Diabetes</i> , 2013 , 62, 3547-52	0.9	22
43	Overestimation of minimal model glucose effectiveness in presence of insulin response is due to undermodeling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998 , 275, E1031-6	6	22
42	Postbinding characterization of five naturally occurring mutations in the human insulin receptor gene: impaired insulin-stimulated c-jun expression and thymidine incorporation despite normal receptor autophosphorylation. <i>Biochemistry</i> , 1992 , 31, 9947-54	3.2	22
41	Direct Evidence that Myocardial Insulin Resistance following Myocardial Ischemia Contributes to Post-Ischemic Heart Failure. <i>Scientific Reports</i> , 2015 , 5, 17927	4.9	22
40	Comparison between surrogate indexes of insulin sensitivity/resistance and hyperinsulinemic euglycemic glucose clamps in rhesus monkeys. <i>Endocrinology</i> , 2011 , 152, 414-23	4.8	21
39	Characterization of a mutant GLUT4 lacking the N-glycosylation site: studies in transfected rat adipose cells. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 218, 76-82	3.4	21
38	Endothelial dysfunction due to selective insulin resistance in vascular endothelium: insights from mechanistic modeling. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 319, E629-E646	6	21
37	Combined therapy with ramipril and simvastatin has beneficial additive effects on tissue factor activity and prothrombin fragment 1+2 in patients with type 2 diabetes. <i>Atherosclerosis</i> , 2007 , 194, 230-7	3.1	20
36	Two mutant alleles of the insulin receptor gene in a family with a genetic form of insulin resistance: a 10 base pair deletion in exon 1 and a mutation substituting serine for asparagine-462. <i>Human Genetics</i> , 1995 , 95, 174-82	6.3	20
35	A mathematical model and computer simulation study of insulin receptor regulation. <i>Journal of Theoretical Biology</i> , 1991 , 150, 59-72	2.3	20
34	Differential metabolic actions of specific statins: clinical and therapeutic considerations. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 1286-99	8.4	18
33	Vascular and metabolic effects of candesartan: insights from therapeutic interventions. <i>Journal of Hypertension</i> , 2006 , 24, S31-8	1.9	18
32	Effects of simvastatin therapy on circulating adipocytokines in patients with hypercholesterolemia. <i>International Journal of Cardiology</i> , 2011 , 146, 434-7	3.2	17
31	Dominant negative FADD dissipates the proapoptotic signalosome of the unfolded protein response in diabetic embryopathy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E861-73	6	15
30	Combining Potent Statin Therapy with Other Drugs to Optimize Simultaneous Cardiovascular and Metabolic Benefits while Minimizing Adverse Events. <i>Korean Circulation Journal</i> , 2017 , 47, 432-439	2.2	15
29	PTEN does not modulate GLUT4 translocation in rat adipose cells under physiological conditions. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 288, 1011-7	3.4	15

28	Role of pleckstrin homology domain in regulating membrane targeting and metabolic function of insulin receptor substrate 3. <i>Molecular Endocrinology</i> , 2003 , 17, 1568-79		14
27	Estrogen deprivation in primate pregnancy leads to insulin resistance in offspring. <i>Journal of Endocrinology</i> , 2016 , 230, 171-83	4.7	13
26	Limited predictive ability of surrogate indices of insulin sensitivity/resistance in Asian-Indian men. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E1106-12	6	12
25	A mathematical model and computer simulation study of insulin sensitive glucose transporter regulation. <i>Journal of Theoretical Biology</i> , 1991 , 150, 93-107	2.3	12
24	Race affects the association of obesity measures with insulin sensitivity. <i>American Journal of Clinical Nutrition</i> , 2020 , 111, 515-525	7	12
23	Infliximab therapy restores adiponectin expression in perivascular adipose tissue and improves endothelial nitric oxide-mediated vasodilation in mice with type 1 diabetes. <i>Vascular Pharmacology</i> , 2016 , 87, 83-91	5.9	10
22	Simple modeling allows prediction of steady-state glucose disposal rate from early data in hyperinsulinemic glucose clamps. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E229-36	6	10
21	Simvastatin Treatment Protects Myocardium in Noncoronary Artery Cardiac Surgery by Inhibiting Apoptosis Through miR-15a-5p Targeting. <i>Journal of Cardiovascular Pharmacology</i> , 2018 , 72, 176-185	3.1	9
20	Acute vascular and metabolic actions of the green tea polyphenol epigallocatechin 3-gallate in rat skeletal muscle. <i>Journal of Nutritional Biochemistry</i> , 2017 , 40, 23-31	6.3	8
19	Extracellular conversion of adiponectin hexamers into trimers. <i>Bioscience Reports</i> , 2012 , 32, 641-52	4.1	8
18	Insulin Action and Endothelial Function 1999 , 247-263		7
17	Monocyte DPP4 Expression in Human Atherosclerosis Is Associated With Obesity and Dyslipidemia. <i>Diabetes Care</i> , 2018 , 41, e1-e3	14.6	7
16	Peritoneal dialysis using bicarbonate-containing dialysate produced by automated dialysate delivery machine. <i>Artificial Organs</i> , 1982 , 6, 67-9	2.6	5
15	Role of renin-angiotensin system blockades in reciprocal relationship between insulin resistance and endothelial dysfunction. <i>Hypertension</i> , 2010 , 56, e169; author reply e170	8.5	4
14	Combination therapy for treatment or prevention of atherosclerosis. <i>Hypertension</i> , 2008 , 52, e18; author reply e19	8.5	4
13	Molecular and Cellular Aspects of Insulin Resistance: Implications for Diabetes 171-200		3
12	Dynamic changes in plasma proinsulin/insulin ratio during insulin secretion influence correlation between radioimmunoassay (RIA) and IMX measurements of insulin. <i>Clinica Chimica Acta</i> , 1999 , 284, 1-13	6.2	3
11	Letter re: Limited accuracy of surrogates of insulin resistance during puberty in obese and lean children at risk for altered glucoregulation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 4418-9; author reply 4419	5.6	2

10	When MINMOD Artificially Interprets Strong Insulin Secretion as Weak Insulin Action. <i>Frontiers in Physiology</i> , 2021 , 12, 601894	4.6	2
9	Transgenic mice with ectopic expression of constitutively active TLR4 in adipose tissues do not show impaired insulin sensitivity. <i>Immunity, Inflammation and Disease</i> , 2017 , 5, 526-540	2.4	
8	Response to comment on Sarkar et al. Exenatide treatment for 6 months improves insulin sensitivity in adults with type 1 diabetes. <i>Diabetes care</i> 2014;37:666-670. <i>Diabetes Care</i> , 2014 , 37, e219-20	14.6	
7	Letter by Koh and Quon regarding article, "Evidence mandating earlier and more aggressive treatment of hypercholesterolemia". <i>Circulation</i> , 2009 , 119, e376; author reply e377	16.7	
6	Predicted effects of hemoglobin A1c assay precision on a patient population distribution of serial hemoglobin A1c difference values. <i>Clinica Chimica Acta</i> , 2007 , 378, 201-5	6.2	
5	Insulin Action 2000 , 17-38		
4	Insulin and Insulin-Like Growth Factor-1 Receptors and Signaling Pathways: Similarities and Differences. <i>Growth Hormone</i> , 2002 , 81-99		
3	Insulin Action and Endothelial Function 2008 , 107-135		
2	Improved insulin sensitivity and reduced adiposity with aP2 driven TLR4 overexpression in transgenic mice. <i>FASEB Journal</i> , 2013 , 27, 1083.6	0.9	
1	Reciprocal relationships between insulin resistance and endothelial dysfunction: insights from therapeutic interventions. <i>Journal of Central South University (Medical Sciences)</i> , 2006 , 31, 305-12	0.4	