

Amira Klip

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183
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12,159
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h-index

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260
ext. papers

13,399
ext. citations

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avg, IF

6.35
L-index

#	Paper	IF	Citations
183	Different immune cells mediate mechanical pain hypersensitivity in male and female mice. <i>Nature Neuroscience</i> , 2015 , 18, 1081-3	25.5	704
182	Protein kinase B/Akt participates in GLUT4 translocation by insulin in L6 myoblasts. <i>Molecular and Cellular Biology</i> , 1999 , 19, 4008-18	4.8	508
181	Glucose transport and glucose transporters in muscle and their metabolic regulation. <i>Diabetes Care</i> , 1990 , 13, 228-43	14.6	296
180	Insulin-induced translocation of glucose transporters in rat hindlimb muscles. <i>FEBS Letters</i> , 1987 , 224, 224-30	3.8	273
179	Regulation of expression of glucose transporters by glucose: a review of studies in vivo and in cell cultures. <i>FASEB Journal</i> , 1994 , 8, 43-53	0.9	260
178	Minireview: recent developments in the regulation of glucose transporter-4 traffic: new signals, locations, and partners. <i>Endocrinology</i> , 2005 , 146, 5071-8	4.8	224
177	Insulin action on glucose transporters through molecular switches, tracks and tethers. <i>Biochemical Journal</i> , 2008 , 413, 201-15	3.8	219
176	Glucose transporter 4: cycling, compartments and controversies. <i>EMBO Reports</i> , 2005 , 6, 1137-42	6.5	195
175	The Rab GTPase-activating protein AS160 integrates Akt, protein kinase C, and AMP-activated protein kinase signals regulating GLUT4 traffic. <i>Diabetes</i> , 2007 , 56, 414-23	0.9	185
174	GLUT4 translocation by insulin in intact muscle cells: detection by a fast and quantitative assay. <i>FEBS Letters</i> , 1998 , 427, 193-7	3.8	182
173	Tissue-specific roles of IRS proteins in insulin signaling and glucose transport. <i>Trends in Endocrinology and Metabolism</i> , 2006 , 17, 72-8	8.8	181
172	Cross-talk between skeletal muscle and immune cells: muscle-derived mediators and metabolic implications. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E453-65	6	179
171	NOD1 activators link innate immunity to insulin resistance. <i>Diabetes</i> , 2011 , 60, 2206-15	0.9	176
170	Ceramide- and oxidant-induced insulin resistance involve loss of insulin-dependent Rac-activation and actin remodeling in muscle cells. <i>Diabetes</i> , 2007 , 56, 394-403	0.9	164
169	Turning signals on and off: GLUT4 traffic in the insulin-signaling highway. <i>Physiology</i> , 2005 , 20, 271-84	9.8	158
168	Actin filaments participate in the relocalization of phosphatidylinositol3-kinase to glucose transporter-containing compartments and in the stimulation of glucose uptake in 3T3-L1 adipocytes. <i>Biochemical Journal</i> , 1998 , 331 (Pt 3), 917-28	3.8	155
167	The cell biology of systemic insulin function. <i>Journal of Cell Biology</i> , 2018 , 217, 2273-2289	7.3	151

166	Update on GLUT4 Vesicle Traffic: A Cornerstone of Insulin Action. <i>Trends in Endocrinology and Metabolism</i> , 2017 , 28, 597-611	8.8	145
165	Insulin-induced cortical actin remodeling promotes GLUT4 insertion at muscle cell membrane ruffles. <i>Journal of Clinical Investigation</i> , 2001 , 108, 371-381	15.9	144
164	Rab8A and Rab13 are activated by insulin and regulate GLUT4 translocation in muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19909-14	11.5	137
163	Skeletal muscle cells and adipocytes differ in their reliance on TC10 and Rac for insulin-induced actin remodeling. <i>Molecular Endocrinology</i> , 2004 , 18, 359-72		126
162	Rabs 8A and 14 are targets of the insulin-regulated Rab-GAP AS160 regulating GLUT4 traffic in muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 353, 1074-9	3.4	125
161	Opposite translational control of GLUT1 and GLUT4 glucose transporter mRNAs in response to insulin. Role of mammalian target of rapamycin, protein kinase b, and phosphatidylinositol 3-kinase in GLUT1 mRNA translation. <i>Journal of Biological Chemistry</i> , 1999 , 274, 33085-91	5.4	125
160	Differential contribution of insulin receptor substrates 1 versus 2 to insulin signaling and glucose uptake in L6 myotubes. <i>Journal of Biological Chemistry</i> , 2005 , 280, 19426-35	5.4	123
159	GLUT4 translocation precedes the stimulation of glucose uptake by insulin in muscle cells: potential activation of GLUT4 via p38 mitogen-activated protein kinase. <i>Biochemical Journal</i> , 2001 , 359, 639-649	3.8	123
158	Exercise-induced increase in glucose transporters in plasma membranes of rat skeletal muscle. <i>Endocrinology</i> , 1989 , 124, 449-54	4.8	123
157	Signal transduction meets vesicle traffic: the software and hardware of GLUT4 translocation. <i>American Journal of Physiology - Cell Physiology</i> , 2014 , 306, C879-86	5.4	120
156	Palmitoleate Reverses High Fat-induced Proinflammatory Macrophage Polarization via AMP-activated Protein Kinase (AMPK). <i>Journal of Biological Chemistry</i> , 2015 , 290, 16979-88	5.4	119
155	Endocytosis, recycling, and regulated exocytosis of glucose transporter 4. <i>Biochemistry</i> , 2011 , 50, 3048-63	4.2	119
154	Differential expression of the GLUT1 and GLUT4 glucose transporters during differentiation of L6 muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 175, 652-9	3.4	119
153	Pro-inflammatory macrophages increase in skeletal muscle of high fat-fed mice and correlate with metabolic risk markers in humans. <i>Obesity</i> , 2014 , 22, 747-57	8	113
152	Muscle cells engage Rab8A and myosin Vb in insulin-dependent GLUT4 translocation. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C1016-25	5.4	111
151	Sustained exposure of L6 myotubes to high glucose and insulin decreases insulin-stimulated GLUT4 translocation but upregulates GLUT4 activity. <i>Diabetes</i> , 2002 , 51, 2090-8	0.9	111
150	Cellubrevin is a resident protein of insulin-sensitive GLUT4 glucose transporter vesicles in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8233-40	5.4	107
149	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. <i>Cellular Signalling</i> , 2011 , 23, 1546-54	4.9	106

148	Thirty sweet years of GLUT4. <i>Journal of Biological Chemistry</i> , 2019 , 294, 11369-11381	5.4	105
147	Regulation of the Na ⁺ /K ⁺ -ATPase by insulin: Why and how? 1998 , 182, 121-133		104
146	Rac1 is a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Diabetes</i> , 2013 , 62, 1139-51	0.9	103
145	Insulin activates a p21-activated kinase in muscle cells via phosphatidylinositol 3-kinase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19664-7	5.4	103
144	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. <i>Cellular Signalling</i> , 2014 , 26, 323-31	4.9	101
143	Troglitazone causes acute mitochondrial membrane depolarisation and an AMPK-mediated increase in glucose phosphorylation in muscle cells. <i>Diabetologia</i> , 2005 , 48, 954-66	10.3	101
142	Insulin-dependent interactions of proteins with GLUT4 revealed through stable isotope labeling by amino acids in cell culture (SILAC). <i>Journal of Proteome Research</i> , 2006 , 5, 64-75	5.6	98
141	Indinavir uncovers different contributions of GLUT4 and GLUT1 towards glucose uptake in muscle and fat cells and tissues. <i>Diabetologia</i> , 2003 , 46, 649-58	10.3	97
140	VAMP2, but not VAMP3/cellubrevin, mediates insulin-dependent incorporation of GLUT4 into the plasma membrane of L6 myoblasts. <i>Molecular Biology of the Cell</i> , 2000 , 11, 2403-17	3.5	97
139	GLUT4 vesicle recruitment and fusion are differentially regulated by Rac, AS160, and Rab8A in muscle cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27208-19	5.4	92
138	Type 2 diabetes mellitus and inflammation: Prospects for biomarkers of risk and nutritional intervention. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2010 , 3, 173-86	3.4	90
137	The many ways to regulate glucose transporter 4. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009 , 34, 481-7	3	89
136	NOD2 activation induces muscle cell-autonomous innate immune responses and insulin resistance. <i>Endocrinology</i> , 2010 , 151, 5624-37	4.8	85
135	Mechanism and regulation of GLUT-4 vesicle fusion in muscle and fat cells. <i>American Journal of Physiology - Cell Physiology</i> , 2000 , 279, C877-90	5.4	84
134	Intermittent fasting promotes adipose thermogenesis and metabolic homeostasis via VEGF-mediated alternative activation of macrophage. <i>Cell Research</i> , 2017 , 27, 1309-1326	24.7	83
133	Electrical stimuli release ATP to increase GLUT4 translocation and glucose uptake via PI3K/Akt-AS160 in skeletal muscle cells. <i>Diabetes</i> , 2013 , 62, 1519-26	0.9	81
132	Hyperosmolarity reduces GLUT4 endocytosis and increases its exocytosis from a VAMP2-independent pool in l6 muscle cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 22883-91	5.4	80
131	Insulin accelerates inter-endosomal GLUT4 traffic via phosphatidylinositol 3-kinase and protein kinase B. <i>Journal of Biological Chemistry</i> , 2001 , 276, 44212-21	5.4	80

130	Maturation of the regulation of GLUT4 activity by p38 MAPK during L6 cell myogenesis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 17953-62	5.4	79
129	Identification of a human homologue of the vesicle-associated membrane protein (VAMP)-associated protein of 33 kDa (VAP-33): a broadly expressed protein that binds to VAMP. <i>Biochemical Journal</i> , 1998 , 333 (Pt 2), 247-51	3.8	78
128	Muscle insulin resistance: assault by lipids, cytokines and local macrophages. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2010 , 13, 382-90	3.8	74
127	Clathrin-dependent and independent endocytosis of glucose transporter 4 (GLUT4) in myoblasts: regulation by mitochondrial uncoupling. <i>Traffic</i> , 2008 , 9, 1173-90	5.7	74
126	Hexose transport in L6 muscle cells. Kinetic properties and the number of [3H]cytochalasin B binding sites. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982 , 687, 265-80	3.8	74
125	Acute and chronic signals controlling glucose transport in skeletal muscle. <i>Journal of Cellular Biochemistry</i> , 1992 , 48, 51-60	4.7	73
124	Role of the actin cytoskeleton in insulin action. <i>Microscopy Research and Technique</i> , 1999 , 47, 79-92	2.8	72
123	Rac1 governs exercise-stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. <i>Journal of Physiology</i> , 2016 , 594, 4997-5008	3.9	71
122	Differential effects of phosphatidylinositol 3-kinase inhibition on intracellular signals regulating GLUT4 translocation and glucose transport. <i>Journal of Biological Chemistry</i> , 2001 , 276, 46079-87	5.4	70
121	Muscle cell depolarization induces a gain in surface GLUT4 via reduced endocytosis independently of AMPK. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006 , 290, E1276-86	6	68
120	Rapid stimulation of glucose transport by mitochondrial uncoupling depends in part on cytosolic Ca ²⁺ and cPKC. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 275, C1487-97	5.4	68
119	Decrease in glucose transporter number in skeletal muscle of mildly diabetic (streptozotocin-treated) rats. <i>Endocrinology</i> , 1989 , 125, 890-7	4.8	66
118	Arp2/3- and cofilin-coordinated actin dynamics is required for insulin-mediated GLUT4 translocation to the surface of muscle cells. <i>Molecular Biology of the Cell</i> , 2010 , 21, 3529-39	3.5	65
117	Identification and characterization of two distinct intracellular GLUT4 pools in rat skeletal muscle: evidence for an endosomal and an insulin-sensitive GLUT4 compartment. <i>Biochemical Journal</i> , 1997 , 325 (Pt 3), 727-32	3.8	64
116	Intracellular segregation of phosphatidylinositol-3,4,5-trisphosphate by insulin-dependent actin remodeling in L6 skeletal muscle cells. <i>Molecular and Cellular Biology</i> , 2003 , 23, 4611-26	4.8	64
115	Direct and macrophage-mediated actions of fatty acids causing insulin resistance in muscle cells. <i>Archives of Physiology and Biochemistry</i> , 2009 , 115, 176-90	2.2	62
114	Exercise modulates the insulin-induced translocation of glucose transporters in rat skeletal muscle. <i>FEBS Letters</i> , 1990 , 261, 256-60	3.8	62
113	Expression of beta subunit isoforms of the Na ⁺ ,K ⁽⁺⁾ -ATPase is muscle type-specific. <i>FEBS Letters</i> , 1993 , 328, 253-8	3.8	61

112	Perturbation of dynamin II with an amphiphysin SH3 domain increases GLUT4 glucose transporters at the plasma membrane in 3T3-L1 adipocytes. Dynamin II participates in GLUT4 endocytosis. <i>Journal of Biological Chemistry</i> , 1998 , 273, 8169-76	5.4	59
111	Regulation of cell surface GLUT1, GLUT3, and GLUT4 by insulin and IGF-I in L6 myotubes. <i>FEBS Letters</i> , 1995 , 368, 19-22	3.8	58
110	Myosin Va mediates Rab8A-regulated GLUT4 vesicle exocytosis in insulin-stimulated muscle cells. <i>Molecular Biology of the Cell</i> , 2014 , 25, 1159-70	3.5	57
109	Clathrin-dependent entry and vesicle-mediated exocytosis define insulin transcytosis across microvascular endothelial cells. <i>Molecular Biology of the Cell</i> , 2015 , 26, 740-50	3.5	54
108	Unique mechanism of GLUT3 glucose transporter regulation by prolonged energy demand: increased protein half-life. <i>Biochemical Journal</i> , 1998 , 333 (Pt 3), 713-8	3.8	54
107	GLUT-4myc ectopic expression in L6 myoblasts generates a GLUT-4-specific pool conferring insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999 , 277, E572-8	6	54
106	Insulin and hypertonicity recruit GLUT4 to the plasma membrane of muscle cells by using N-ethylmaleimide-sensitive factor-dependent SNARE mechanisms but different v-SNAREs: role of TI-VAMP. <i>Molecular Biology of the Cell</i> , 2004 , 15, 5565-73	3.5	53
105	A functional role for VAP-33 in insulin-stimulated GLUT4 traffic. <i>Traffic</i> , 2000 , 1, 512-21	5.7	53
104	Subcellular distribution and immunocytochemical localization of Na,K-ATPase subunit isoforms in human skeletal muscle. <i>Molecular Membrane Biology</i> , 1994 , 11, 255-62	3.4	53
103	Intracellular delivery of phosphatidylinositol (3,4,5)-trisphosphate causes incorporation of glucose transporter 4 into the plasma membrane of muscle and fat cells without increasing glucose uptake. <i>Journal of Biological Chemistry</i> , 2004 , 279, 32233-42	5.4	52
102	Need for GLUT4 activation to reach maximum effect of insulin-mediated glucose uptake in brown adipocytes isolated from GLUT4myc-expressing mice. <i>Diabetes</i> , 2002 , 51, 2719-26	0.9	51
101	Myo1c binding to submembrane actin mediates insulin-induced tethering of GLUT4 vesicles. <i>Molecular Biology of the Cell</i> , 2012 , 23, 4065-78	3.5	49
100	The F-BAR protein CIP4 promotes GLUT4 endocytosis through bidirectional interactions with N-WASP and Dynamin-2. <i>Journal of Cell Science</i> , 2009 , 122, 2283-91	5.3	49
99	Insulin regulates the membrane arrival, fusion, and C-terminal unmasking of glucose transporter-4 via distinct phosphoinositides. <i>Journal of Biological Chemistry</i> , 2005 , 280, 28792-802	5.4	49
98	Acute and long-term effects of insulin-like growth factor I on glucose transporters in muscle cells. Translocation and biosynthesis. <i>FEBS Letters</i> , 1992 , 298, 285-90	3.8	49
97	Insulin-mediated translocation of glucose transporters from intracellular membranes to plasma membranes: sole mechanism of stimulation of glucose transport in L6 muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 157, 1329-35	3.4	49
96	SNAP23 promotes insulin-dependent glucose uptake in 3T3-L1 adipocytes: possible interaction with cytoskeleton. <i>American Journal of Physiology - Cell Physiology</i> , 1999 , 276, C1108-14	5.4	47
95	Circulating NOD1 Activators and Hematopoietic NOD1 Contribute to Metabolic Inflammation and Insulin Resistance. <i>Cell Reports</i> , 2017 , 18, 2415-2426	10.6	46

94	Palmitate-induced inflammatory pathways in human adipose microvascular endothelial cells promote monocyte adhesion and impair insulin transcytosis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015 , 309, E35-44	6	46
93	Reciprocal regulation of endocytosis and metabolism. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6, a016964	10.2	46
92	TAK-242, a small-molecule inhibitor of Toll-like receptor 4 signalling, unveils similarities and differences in lipopolysaccharide- and lipid-induced inflammation and insulin resistance in muscle cells. <i>Bioscience Reports</i> , 2012 , 33, 37-47	4.1	46
91	Distribution of glucose transporters and insulin receptors in the plasma membrane and transverse tubules of skeletal muscle. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 253, 279-86	4.1	46
90	Palmitoylation of NOD1 and NOD2 is required for bacterial sensing. <i>Science</i> , 2019 , 366, 460-467	33.3	45
89	Palmitate- and lipopolysaccharide-activated macrophages evoke contrasting insulin responses in muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E37-46	6	45
88	Fish glucose transporter (GLUT)-4 differs from rat GLUT4 in its traffic characteristics but can translocate to the cell surface in response to insulin in skeletal muscle cells. <i>Endocrinology</i> , 2007 , 148, 5248-57	4.8	45
87	Insulin but not PDGF relies on actin remodeling and on VAMP2 for GLUT4 translocation in myoblasts. <i>Journal of Cell Science</i> , 2004 , 117, 5447-55	5.3	45
86	Alpha-actinin-4 is selectively required for insulin-induced GLUT4 translocation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 25115-25123	5.4	43
85	Palmitate-activated macrophages confer insulin resistance to muscle cells by a mechanism involving protein kinase C β and γ . <i>PLoS ONE</i> , 2011 , 6, e26947	3.7	42
84	Insulin-induced decrease in 5S nucleotidase activity in skeletal muscle membranes. <i>FEBS Letters</i> , 1988 , 238, 419-23	3.8	42
83	The glucose transport system of muscle plasma membranes: characterization by means of [³ H]cytochalasin B binding. <i>Archives of Biochemistry and Biophysics</i> , 1983 , 221, 175-87	4.1	42
82	GAPDH binds GLUT4 reciprocally to hexokinase-II and regulates glucose transport activity. <i>Biochemical Journal</i> , 2009 , 419, 475-84	3.8	41
81	Insulin elicits a ROS-activated and an IP β -dependent Ca ²⁺ release, which both impinge on GLUT4 translocation. <i>Journal of Cell Science</i> , 2014 , 127, 1911-23	5.3	40
80	Contraction-related stimuli regulate GLUT4 traffic in C2C12-GLUT4myc skeletal muscle cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E1058-71	6	40
79	A complex of Rab13 with MICAL-L2 and β -actinin-4 is essential for insulin-dependent GLUT4 exocytosis. <i>Molecular Biology of the Cell</i> , 2016 , 27, 75-89	3.5	38
78	Endothelial cell barriers: Transport of molecules between blood and tissues. <i>Traffic</i> , 2019 , 20, 390-403	5.7	37
77	Signaling of the p21-activated kinase (PAK1) coordinates insulin-stimulated actin remodeling and glucose uptake in skeletal muscle cells. <i>Biochemical Pharmacology</i> , 2014 , 92, 380-8	6	37

76	Rac-1 superactivation triggers insulin-independent glucose transporter 4 (GLUT4) translocation that bypasses signaling defects exerted by c-Jun N-terminal kinase (JNK)- and ceramide-induced insulin resistance. <i>Journal of Biological Chemistry</i> , 2013 , 288, 17520-31	5.4	37
75	Saturated fatty acids activate caspase-4/5 in human monocytes, triggering IL-1 β and IL-18 release. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E825-E835	6	36
74	A transgenic mouse model to study glucose transporter 4myc regulation in skeletal muscle. <i>Endocrinology</i> , 2009 , 150, 1935-40	4.8	36
73	Effect of diabetes on glucoregulation. From glucose transporters to glucose metabolism in vivo. <i>Diabetes Care</i> , 1992 , 15, 1747-66	14.6	35
72	The pleckstrin homology (PH) domain-interacting protein couples the insulin receptor substrate 1 PH domain to insulin signaling pathways leading to mitogenesis and GLUT4 translocation. <i>Molecular and Cellular Biology</i> , 2002 , 22, 7325-36	4.8	34
71	Muscle cells challenged with saturated fatty acids mount an autonomous inflammatory response that activates macrophages. <i>Cell Communication and Signaling</i> , 2012 , 10, 30	7.5	32
70	Selective regulation of the perinuclear distribution of glucose transporter 4 (GLUT4) by insulin signals in muscle cells. <i>European Journal of Cell Biology</i> , 2008 , 87, 337-51	6.1	32
69	High Leptin Levels Acutely Inhibit Insulin-Stimulated Glucose Uptake without Affecting Glucose Transporter 4 Translocation in L6 Rat Skeletal Muscle Cells		31
68	Conditioned medium from hypoxia-treated adipocytes renders muscle cells insulin resistant. <i>European Journal of Cell Biology</i> , 2011 , 90, 1000-15	6.1	29
67	Nucleotides released from palmitate-challenged muscle cells through pannexin-3 attract monocytes. <i>Diabetes</i> , 2014 , 63, 3815-26	0.9	28
66	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. <i>Cell Metabolism</i> , 2021 , 33, 758-780	24.6	28
65	Regulation of glucose transporter 4 traffic by energy deprivation from mitochondrial compromise. <i>Acta Physiologica</i> , 2009 , 196, 27-35	5.6	27
64	Ready, set, internalize: mechanisms and regulation of GLUT4 endocytosis. <i>Bioscience Reports</i> , 2009 , 29, 1-11	4.1	26
63	Cellular location of insulin-triggered signals and implications for glucose uptake. <i>Pflugers Archiv European Journal of Physiology</i> , 2006 , 451, 499-510	4.6	26
62	Insulin increases plasma membrane content and reduces phosphorylation of Na(+)-K(+) pump alpha(1)-subunit in HEK-293 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2001 , 281, C1797-803	5.4	26
61	Contracting C2C12 myotubes release CCL2 in an NF- κ B-dependent manner to induce monocyte chemoattraction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 310, E160-70	6	26
60	Rho GTPases-Emerging Regulators of Glucose Homeostasis and Metabolic Health. <i>Cells</i> , 2019 , 8,	7.9	24
59	Exercise- and insulin-stimulated muscle glucose transport: distinct mechanisms of regulation. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2002 , 27, 129-51		24

58	NOD2 activation induces oxidative stress contributing to mitochondrial dysfunction and insulin resistance in skeletal muscle cells. <i>Free Radical Biology and Medicine</i> , 2015 , 89, 158-69	7.8	23
57	GLUT-4 translocation in skeletal muscle studied with a cell-free assay: involvement of phospholipase D. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001 , 281, E608-18	6	23
56	Opposite effect of JAK2 on insulin-dependent activation of mitogen-activated protein kinases and Akt in muscle cells: possible target to ameliorate insulin resistance. <i>Diabetes</i> , 2006 , 55, 942-51	0.9	22
55	The GLUT4 glucose transporter and the alpha 2 subunit of the Na ⁺ ,K ⁽⁺⁾ -ATPase do not localize to the same intracellular vesicles in rat skeletal muscle. <i>FEBS Letters</i> , 1995 , 366, 109-14	3.8	22
54	Regulation of amino acid uptake by phorbol esters and hypertonic solutions in rat thymocytes. <i>Journal of Cellular Physiology</i> , 1986 , 127, 244-52	7	22
53	Regulation of amino acid transport in L6 muscle cells: I. Stimulation of transport system A by amino acid deprivation. <i>Journal of Cellular Physiology</i> , 1982 , 112, 229-36	7	22
52	Glucose rapidly decreases plasma membrane GLUT4 content in rat skeletal muscle. <i>Endocrine</i> , 1999 , 10, 13-8		21
51	Temporal activation of p70 S6 kinase and Akt1 by insulin: PI 3-kinase-dependent and -independent mechanisms. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1998 , 275, E618-25	6	20
50	Electrical pulse stimulation induces GLUT4 translocation in CC myotubes that depends on Rab8A, Rab13, and Rab14. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 314, E478-E493 ⁶		19
49	Dynamic GLUT4 sorting through a syntaxin-6 compartment in muscle cells is derailed by insulin resistance-causing ceramide. <i>Biology Open</i> , 2014 , 3, 314-25	2.2	19
48	Increased inflammation, oxidative stress and a reduction in antioxidant defense enzymes in perivascular adipose tissue contribute to vascular dysfunction in type 2 diabetes. <i>Free Radical Biology and Medicine</i> , 2020 , 146, 264-274	7.8	19
47	Opposite effects of insulin on focal adhesion proteins in 3T3-L1 adipocytes and in cells overexpressing the insulin receptor. <i>Molecular Biology of the Cell</i> , 1998 , 9, 3057-69	3.5	18
46	Mice lacking NOX2 are hyperphagic and store fat preferentially in the liver. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 306, E1341-53	6	17
45	The proinflammatory cytokine tumor necrosis factor-alpha increases the amount of glucose transporter-4 at the surface of muscle cells independently of changes in interleukin-6. <i>Endocrinology</i> , 2008 , 149, 1880-9	4.8	17
44	Bone marrow adipose cells - cellular interactions and changes with obesity. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	16
43	Documenting GLUT4 exocytosis and endocytosis in muscle cell monolayers. <i>Current Protocols in Cell Biology</i> , 2010 , Chapter 15, Unit 15.15	2.3	16
42	Insulin uptake and action in microvascular endothelial cells of lymphatic and blood origin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018 , 315, E204-E217	6	15
41	Role of kinases in insulin stimulation of glucose transport. <i>Journal of Membrane Biology</i> , 1989 , 111, 1-23	2.3	15

40	Insulin binding to differentiating muscle cells in culture. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1983 , 61, 644-9		14
39	The Rho-guanine nucleotide exchange factor PDZ-RhoGEF governs susceptibility to diet-induced obesity and type 2 diabetes. <i>ELife</i> , 2015 , 4,	8.9	14
38	Endothelial Transcytosis of Insulin: Does It Contribute to Insulin Resistance?. <i>Physiology</i> , 2016 , 31, 336-45.	5.8	14
37	Deficiency of the autophagy gene ATG16L1 induces insulin resistance through KLHL9/KLHL13/CUL3-mediated IRS1 degradation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 16172-16185.	5.4	12
36	Participation of PI3K and atypical PKC in Na ⁺ -K ⁺ -pump stimulation by IGF-I in VSMC. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 276, H2109-16	5.2	12
35	Regulation of amino acid transport in L6 myoblasts. II. Different chemical properties of transport after amino acid deprivation. <i>Journal of Cellular Physiology</i> , 1982 , 113, 56-66	7	12
34	Sphingolipid changes do not underlie fatty acid-evoked GLUT4 insulin resistance nor inflammation signals in muscle cells. <i>Journal of Lipid Research</i> , 2018 , 59, 1148-1163	6.3	12
33	To be or not to be: Regulation of the Intrinsic Activity of GLUT4. <i>Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents</i> , 2005 , 5, 175-187		11
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