

# Jrgen Wojtaszewski

## List of Publications by Citations

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166  
papers

9,518  
citations

52  
h-index

95  
g-index

184  
ext. papers

10,950  
ext. citations

5.3  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
166	Exercise, GLUT4, and skeletal muscle glucose uptake. <i>Physiological Reviews</i> , <b>2013</b> , 93, 993-1017	47.9	654
165	Knockout of the alpha2 but not alpha1 5QAMP-activated protein kinase isoform abolishes 5-aminoimidazole-4-carboxamide-1-beta-4-ribofuranosidebut not contraction-induced glucose uptake in skeletal muscle. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 1070-9	5.4	436
164	Strength training increases insulin-mediated glucose uptake, GLUT4 content, and insulin signaling in skeletal muscle in patients with type 2 diabetes. <i>Diabetes</i> , <b>2004</b> , 53, 294-305	0.9	417
163	Muscle glucose metabolism following exercise in the rat: increased sensitivity to insulin. <i>Journal of Clinical Investigation</i> , <b>1982</b> , 69, 785-93	15.9	369
162	Isoform-specific and exercise intensity-dependent activation of 5QAMP-activated protein kinase in human skeletal muscle. <i>Journal of Physiology</i> , <b>2000</b> , 528 Pt 1, 221-6	3.9	327
161	AMP-activated protein kinase (AMPK) beta1beta2 muscle null mice reveal an essential role for AMPK in maintaining mitochondrial content and glucose uptake during exercise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 16092-7	11.5	313
160	AMPK and the biochemistry of exercise: implications for human health and disease. <i>Biochemical Journal</i> , <b>2009</b> , 418, 261-75	3.8	296
159	Regulation of 5QAMP-activated protein kinase activity and substrate utilization in exercising human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2003</b> , 284, E813-22	6	242
158	Oral creatine supplementation facilitates the rehabilitation of disuse atrophy and alters the expression of muscle myogenic factors in humans. <i>Journal of Physiology</i> , <b>2001</b> , 536, 625-33	3.9	217
157	Exercise-stimulated glucose uptake - regulation and implications for glycaemic control. <i>Nature Reviews Endocrinology</i> , <b>2017</b> , 13, 133-148	15.2	201
156	Early enhancements of hepatic and later of peripheral insulin sensitivity combined with increased postprandial insulin secretion contribute to improved glycemic control after Roux-en-Y gastric bypass. <i>Diabetes</i> , <b>2014</b> , 63, 1725-37	0.9	192
155	Glucose, exercise and insulin: emerging concepts. <i>Journal of Physiology</i> , <b>2001</b> , 535, 313-22	3.9	173
154	AMPK in skeletal muscle function and metabolism. <i>FASEB Journal</i> , <b>2018</b> , 32, 1741-1777	0.9	172
153	Possible CaMKK-dependent regulation of AMPK phosphorylation and glucose uptake at the onset of mild tetanic skeletal muscle contraction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E1308-17	6	161
152	Exercise modulates postreceptor insulin signaling and glucose transport in muscle-specific insulin receptor knockout mice. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 104, 1257-64	15.9	160
151	Caffeine ingestion does not alter carbohydrate or fat metabolism in human skeletal muscle during exercise. <i>Journal of Physiology</i> , <b>2000</b> , 529 Pt 3, 837-47	3.9	144
150	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. <i>FASEB Journal</i> , <b>2014</b> , 28, 3211-24	0.9	142

149	Role of Akt substrate of 160 kDa in insulin-stimulated and contraction-stimulated glucose transport. <i>Applied Physiology, Nutrition and Metabolism</i> , <b>2007</b> , 32, 557-66	3	141
148	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. <i>Cell Metabolism</i> , <b>2017</b> , 25, 1147-1159.e10	24.6	139
147	Effects of endurance exercise training on insulin signaling in human skeletal muscle: interactions at the level of phosphatidylinositol 3-kinase, Akt, and AS160. <i>Diabetes</i> , <b>2007</b> , 56, 2093-102	0.9	137
146	5 $\alpha$ -AMP activated protein kinase expression in human skeletal muscle: effects of strength training and type 2 diabetes. <i>Journal of Physiology</i> , <b>2005</b> , 564, 563-73	3.9	125
145	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E665-75	6	123
144	5 $\alpha$ -AMP-activated protein kinase activity and subunit expression in exercise-trained human skeletal muscle. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 631-41	3.7	120
143	5 $\alpha$ -AMP-activated protein kinase activity and protein expression are regulated by endurance training in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 286, E411-7	6	117
142	Human muscle fiber type-specific insulin signaling: impact of obesity and type 2 diabetes. <i>Diabetes</i> , <b>2015</b> , 64, 485-97	0.9	105
141	Glycogen synthase localization and activity in rat skeletal muscle is strongly dependent on glycogen content. <i>Journal of Physiology</i> , <b>2001</b> , 531, 757-69	3.9	105
140	Rac1 is a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Diabetes</i> , <b>2013</b> , 62, 1139-51	0.9	103
139	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. <i>Cellular Signalling</i> , <b>2014</b> , 26, 323-31	4.9	101
138	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. <i>Diabetes</i> , <b>2017</b> , 66, 1501-1510	0.9	96
137	Lipid-induced insulin resistance affects women less than men and is not accompanied by inflammation or impaired proximal insulin signaling. <i>Diabetes</i> , <b>2011</b> , 60, 64-73	0.9	96
136	Exercise and insulin cause GLUT-4 translocation in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1999</b> , 277, E733-41	6	95
135	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. <i>Diabetes</i> , <b>2017</b> , 66, 598-612	0.9	94
134	Invited review: effect of acute exercise on insulin signaling and action in humans. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 384-92	3.7	94
133	Prior AICAR stimulation increases insulin sensitivity in mouse skeletal muscle in an AMPK-dependent manner. <i>Diabetes</i> , <b>2015</b> , 64, 2042-55	0.9	87
132	Marathon running transiently increases c-Jun NH2-terminal kinase and p38 activities in human skeletal muscle. <i>Journal of Physiology</i> , <b>2000</b> , 526 Pt 3, 663-9	3.9	82

131	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. <i>Nature Communications</i> , <b>2019</b> , 10, 4623	17.4	81
130	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. <i>Journal of Physiology</i> , <b>2014</b> , 592, 351-75	3.9	81
129	A-769662 activates AMPK beta1-containing complexes but induces glucose uptake through a PI3-kinase-dependent pathway in mouse skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2009</b> , 297, C1041-52	5.4	80
128	Genetic impairment of AMPKalpha2 signaling does not reduce muscle glucose uptake during treadmill exercise in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E924-34	6	76
127	Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 298, C377-85	5.4	73
126	Alpha and beta adrenergic effects on metabolism in contracting, perfused muscle. <i>Acta Physiologica Scandinavica</i> , <b>1982</b> , 116, 215-22		72
125	Rac1 governs exercise-stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4997-5008	3.9	71
124	AMPK alpha1 activation is required for stimulation of glucose uptake by twitch contraction, but not by H <sub>2</sub> O <sub>2</sub> , in mouse skeletal muscle. <i>PLoS ONE</i> , <b>2008</b> , 3, e2102	3.7	71
123	Human muscle fibre type-specific regulation of AMPK and downstream targets by exercise. <i>Journal of Physiology</i> , <b>2015</b> , 593, 2053-69	3.9	65
122	Effects of acute exercise and training on insulin action and sensitivity: focus on molecular mechanisms in muscle. <i>Essays in Biochemistry</i> , <b>2006</b> , 42, 31-46	7.6	65
121	Activation of AMP-activated protein kinase rapidly suppresses multiple pro-inflammatory pathways in adipocytes including IL-1 receptor-associated kinase-4 phosphorylation. <i>Molecular and Cellular Endocrinology</i> , <b>2017</b> , 440, 44-56	4.4	61
120	Effect of antioxidant supplementation on insulin sensitivity in response to endurance exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2011</b> , 300, E761-70	6	61
119	A new method to study changes in microvascular blood volume in muscle and adipose tissue: real-time imaging in humans and rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 301, H450-8	5.2	61
118	Acute mTOR inhibition induces insulin resistance and alters substrate utilization in vivo. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 630-41	8.8	57
117	Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation. <i>Journal of Physiology</i> , <b>2016</b> , 594, 745-61	3.9	57
116	AMPK is critical for enhancing skeletal muscle fatty acid utilization during in vivo exercise in mice. <i>FASEB Journal</i> , <b>2015</b> , 29, 1725-38	0.9	55
115	Contraction-stimulated glucose transport in muscle is controlled by AMPK and mechanical stress but not sarcoplasmic reticulum Ca(2+) release. <i>Molecular Metabolism</i> , <b>2014</b> , 3, 742-53	8.8	54
114	Dysregulation of glycogen synthase COOH- and NH <sub>2</sub> -terminal phosphorylation by insulin in obesity and type 2 diabetes mellitus. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2009</b> , 94, 4547-56	5.6	52

113	Intact Regulation of the AMPK Signaling Network in Response to Exercise and Insulin in Skeletal Muscle of Male Patients With Type 2 Diabetes: Illumination of AMPK Activation in Recovery From Exercise. <i>Diabetes</i> , <b>2016</b> , 65, 1219-30	0.9	47
112	Two weeks of metformin treatment induces AMPK-dependent enhancement of insulin-stimulated glucose uptake in mouse soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 306, E1099-109	6	47
111	Role of AMPK in regulation of LC3 lipidation as a marker of autophagy in skeletal muscle. <i>Cellular Signalling</i> , <b>2016</b> , 28, 663-74	4.9	45
110	PT-1 selectively activates AMPK- $\alpha$ complexes in mouse skeletal muscle, but activates all three $\alpha$ subunit complexes in cultured human cells by inhibiting the respiratory chain. <i>Biochemical Journal</i> , <b>2015</b> , 467, 461-72	3.8	41
109	GLP-1 increases microvascular recruitment but not glucose uptake in human and rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 306, E355-62	6	40
108	Benzimidazole derivative small-molecule 991 enhances AMPK activity and glucose uptake induced by AICAR or contraction in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2016</b> , 311, E706-E719	6	40
107	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. <i>Diabetes</i> , <b>2019</b> , 68, 1427-1440	0.9	39
106	Enhanced insulin signaling in human skeletal muscle and adipose tissue following gastric bypass surgery. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2015</b> , 309, R510-24	3.2	39
105	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. <i>Diabetes</i> , <b>2017</b> , 66, 1548-1559	0.9	37
104	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 646-655	8.8	37
103	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. <i>Diabetes</i> , <b>2017</b> , 66, 2583-2595	0.9	37
102	Increased skeletal muscle capillarization enhances insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2014</b> , 307, E1105-16	6	34
101	New Nordic Diet-Induced Weight Loss Is Accompanied by Changes in Metabolism and AMPK Signaling in Adipose Tissue. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, 3509-19	5.6	33
100	Exercise improves phosphatidylinositol-3,4,5-trisphosphate responsiveness of atypical protein kinase C and interacts with insulin signalling to peptide elongation in human skeletal muscle. <i>Journal of Physiology</i> , <b>2007</b> , 582, 1289-301	3.9	33
99	Muscle- and fibre type-specific expression of glucose transporter 4, glycogen synthase and glycogen phosphorylase proteins in human skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 447, 452-6	4.6	33
98	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. <i>Molecular Metabolism</i> , <b>2018</b> , 16, 24-34	8.8	32
97	Effect of birth weight and 12 weeks of exercise training on exercise-induced AMPK signaling in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 304, E1379-90	6	32
96	DOPA, dopamine, and DOPAC concentrations in the rat gastrointestinal tract decrease during fasting. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 279, E815-22	6	32

95	Differential effect of bicycling exercise intensity on activity and phosphorylation of atypical protein kinase C and extracellular signal-regulated protein kinase in skeletal muscle. <i>Journal of Physiology</i> , <b>2004</b> , 560, 909-18	3.9	31
94	Exercise training reduces the insulin-sensitizing effect of a single bout of exercise in human skeletal muscle. <i>Journal of Physiology</i> , <b>2019</b> , 597, 89-103	3.9	31
93	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. <i>Journal of Physiology</i> , <b>2017</b> , 595, 4845-4855	3.9	30
92	Molecular Mechanisms in Skeletal Muscle Underlying Insulin Resistance in Women Who Are Lean With Polycystic Ovary Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 1841-1854	5.6	30
91	Current advances in our understanding of exercise as medicine in metabolic disease. <i>Current Opinion in Physiology</i> , <b>2019</b> , 12, 12-19	2.6	28
90	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. <i>Cell Metabolism</i> , <b>2021</b> , 33, 758-780	24.6	28
89	TBC1D4 Is Necessary for Enhancing Muscle Insulin Sensitivity in Response to AICAR and Contraction. <i>Diabetes</i> , <b>2019</b> , 68, 1756-1766	0.9	27
88	Genetic and metabolic effects on skeletal muscle AMPK in young and older twins. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E956-64	6	25
87	Rac1 muscle knockout exacerbates the detrimental effect of high-fat diet on insulin-stimulated muscle glucose uptake independently of Akt. <i>Journal of Physiology</i> , <b>2018</b> , 596, 2283-2299	3.9	24
86	AMPK $\alpha$ is essential for acute exercise-induced gene responses but not for exercise training-induced adaptations in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 309, E900-14	6	23
85	Housing temperature influences exercise training adaptations in mice. <i>Nature Communications</i> , <b>2020</b> , 11, 1560	17.4	23
84	Globular adiponectin controls insulin-mediated vasoreactivity in muscle through AMPK $\alpha$ . <i>Vascular Pharmacology</i> , <b>2016</b> , 78, 24-35	5.9	23
83	Effects of Exercise Training on Regulation of Skeletal Muscle Glucose Metabolism in Elderly Men. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2015</b> , 70, 866-72	6.4	23
82	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> , <b>2001</b> , 281, E608-18	6	23
81	Skeletal muscle and hormonal adaptation to physical training in the rat: role of the sympatho-adrenal system. <i>Acta Physiologica Scandinavica</i> , <b>1985</b> , 123, 127-38		23
80	Pharmacological but not physiological GDF15 suppresses feeding and the motivation to exercise. <i>Nature Communications</i> , <b>2021</b> , 12, 1041	17.4	23
79	Intact initiation of autophagy and mitochondrial fission by acute exercise in skeletal muscle of patients with Type 2 diabetes. <i>Clinical Science</i> , <b>2017</b> , 131, 37-47	6.5	22
78	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 309, E142-53	6	22

77	Quantitative proteomic characterization of cellular pathways associated with altered insulin sensitivity in skeletal muscle following high-fat diet feeding and exercise training. <i>Scientific Reports</i> , <b>2018</b> , 8, 10723	4.9	22
76	Phosphoproteomics reveals conserved exercise-stimulated signaling and AMPK regulation of store-operated calcium entry. <i>EMBO Journal</i> , <b>2019</b> , 38, e102578	13	22
75	Rac1--a novel regulator of contraction-stimulated glucose uptake in skeletal muscle. <i>Experimental Physiology</i> , <b>2014</b> , 99, 1574-80	2.4	22
74	Insulin-induced membrane permeability to glucose in human muscles at rest and following exercise. <i>Journal of Physiology</i> , <b>2020</b> , 598, 303-315	3.9	21
73	Epinephrine-stimulated glycogen breakdown activates glycogen synthase and increases insulin-stimulated glucose uptake in epitrochlearis muscles. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2015</b> , 308, E231-40	6	19
72	EMG-normalised kinase activation during exercise is higher in human gastrocnemius compared to soleus muscle. <i>PLoS ONE</i> , <b>2012</b> , 7, e31054	3.7	18
71	Knockout of the predominant conventional PKC isoform, PKC $\alpha$ , in mouse skeletal muscle does not affect contraction-stimulated glucose uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 297, E340-8	6	18
70	Intact regulation of muscle expression and circulating levels of myokines in response to exercise in patients with type 2 diabetes. <i>Physiological Reports</i> , <b>2018</b> , 6, e13723	2.6	18
69	Effects of hyperinsulinemia and hyperglycemia on insulin receptor function and glycogen synthase activation in skeletal muscle of normal man. <i>Metabolism: Clinical and Experimental</i> , <b>1991</b> , 40, 830-5	12.7	17
68	Endurance training augments the stimulatory effect of epinephrine on oxygen consumption in perfused skeletal muscle. <i>Acta Physiologica Scandinavica</i> , <b>1984</b> , 120, 613-5		17
67	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. <i>Exs</i> , <b>2016</b> , 107, 81-126		16
66	Inducible deletion of skeletal muscle AMPK reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. <i>Molecular Metabolism</i> , <b>2020</b> , 40, 101028	8.8	15
65	Enhanced voluntary wheel running in GPRC6A receptor knockout mice. <i>Physiology and Behavior</i> , <b>2013</b> , 118, 144-51	3.5	15
64	Reduced malonyl-CoA content in recovery from exercise correlates with improved insulin-stimulated glucose uptake in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 296, E787-95	6	15
63	Glucometabolic consequences of acute and prolonged inhibition of fatty acid oxidation. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 10-19	6.3	15
62	Growth Factor-Dependent and -Independent Activation of mTORC2. <i>Trends in Endocrinology and Metabolism</i> , <b>2020</b> , 31, 13-24	8.8	14
61	Endothelial mechanotransduction proteins and vascular function are altered by dietary sucrose supplementation in healthy young male subjects. <i>Journal of Physiology</i> , <b>2017</b> , 595, 5557-5571	3.9	13
60	Effects of menopause and high-intensity training on insulin sensitivity and muscle metabolism. <i>Menopause</i> , <b>2018</b> , 25, 165-175	2.5	13

59	Diabetes, insulin and exercise. <i>Sports Medicine</i> , <b>1986</b> , 3, 275-88	10.6	13
58	Effect of bariatric surgery on plasma GDF15 in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2019</b> , 316, E615-E621	6	13
57	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. <i>Molecular Metabolism</i> , <b>2020</b> , 39, 100998	8.8	12
56	Effects of one-legged high-intensity interval training on insulin-mediated skeletal muscle glucose homeostasis in patients with type 2 diabetes. <i>Acta Physiologica</i> , <b>2019</b> , 226, e13245	5.6	12
55	Is GLUT4 translocation the answer to exercise-stimulated muscle glucose uptake?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2021</b> , 320, E240-E243	6	12
54	Variable reliability of surrogate measures of insulin sensitivity after Roux-en-Y gastric bypass. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2017</b> , 312, R797-R805	3.2	11
53	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 3009-15	4.8	11
52	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. <i>Diabetes</i> , <b>2019</b> , 68, 502-514	0.9	11
51	Quantification of exercise-regulated ubiquitin signaling in human skeletal muscle identifies protein modification cross talk via NEDDylation. <i>FASEB Journal</i> , <b>2020</b> , 34, 5906-5916	0.9	10
50	Circulating Follistatin and Activin A and Their Regulation by Insulin in Obesity and Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2020</b> , 105,	5.6	10
49	Glucose metabolism and metabolic flexibility in cultured skeletal muscle cells is related to exercise status in young male subjects. <i>Archives of Physiology and Biochemistry</i> , <b>2018</b> , 124, 119-130	2.2	10
48	Thyroid hormone receptor $\beta$ in skeletal muscle is essential for T3-mediated increase in energy expenditure. <i>FASEB Journal</i> , <b>2020</b> , 34, 15480-15491	0.9	10
47	Insulin-stimulated glucose uptake partly relies on p21-activated kinase (PAK)2, but not PAK1, in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5351-5377	3.9	10
46	Metformin does not compromise energy status in human skeletal muscle at rest or during acute exercise: A randomised, crossover trial. <i>Physiological Reports</i> , <b>2019</b> , 7, e14307	2.6	10
45	A Single Bout of One-Legged Exercise to Local Exhaustion Decreases Insulin Action in Nonexercised Muscle Leading to Decreased Whole-Body Insulin Action. <i>Diabetes</i> , <b>2020</b> , 69, 578-590	0.9	9
44	Is contraction-stimulated glucose transport feedforward regulated by Ca <sup>2+</sup> ?. <i>Experimental Physiology</i> , <b>2014</b> , 99, 1562-8	2.4	9
43	Personalized phosphoproteomics identifies functional signaling. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	8
42	Post-exercise recovery for the endurance athlete with type 1 diabetes: a consensus statement. <i>Lancet Diabetes and Endocrinology</i> , <b>2021</b> , 9, 304-317	18.1	8

41	Coingestion of protein and carbohydrate in the early recovery phase, compared with carbohydrate only, improves endurance performance despite similar glycogen degradation and AMPK phosphorylation. <i>Journal of Applied Physiology</i> , <b>2020</b> , 129, 297-310	3.7	7
40	The insulin-sensitizing effect of a single exercise bout is similar in type I and type II human muscle fibres. <i>Journal of Physiology</i> , <b>2020</b> , 598, 5687-5699	3.9	7
39	Metabolic and Transcriptional Changes in Cultured Muscle Stem Cells from Low Birth Weight Subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 101, 2254-64	5.6	7
38	Exercise Induction of Key Transcriptional Regulators of Metabolic Adaptation in Muscle Is Preserved in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 4909-4920	5.6	6
37	The p21-activated kinase 2 (PAK2), but not PAK1, regulates contraction-stimulated skeletal muscle glucose transport. <i>Physiological Reports</i> , <b>2020</b> , 8, e14460	2.6	6
36	Colchicine treatment impairs skeletal muscle mitochondrial function and insulin sensitivity in an age-specific manner. <i>FASEB Journal</i> , <b>2020</b> , 34, 8653-8670	0.9	5
35	Effect of long-term voluntary exercise wheel running on susceptibility to bacterial pulmonary infections in a mouse model. <i>PLoS ONE</i> , <b>2013</b> , 8, e82869	3.7	5
34	The effect of training on responses of beta-endorphin and other pituitary hormones to insulin-induced hypoglycemia. <i>European Journal of Applied Physiology and Occupational Physiology</i> , <b>1985</b> , 54, 476-9		5
33	BMSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157027	3.7	5
32	Mechanisms Underlying Absent Training-Induced Improvement in Insulin Action in Lean, Hyperandrogenic Women With Polycystic Ovary Syndrome. <i>Diabetes</i> , <b>2020</b> , 69, 2267-2280	0.9	5
31	Decreased spontaneous activity in AMPK $\alpha$ muscle specific kinase dead mice is not caused by changes in brain dopamine metabolism. <i>Physiology and Behavior</i> , <b>2016</b> , 164, 300-5	3.5	4
30	$\alpha$ -Agonist Induces Net Leg Glucose Uptake and Free Fatty Acid Release at Rest but Not During Exercise in Young Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 647-657	5.6	4
29	Epigenome- and Transcriptome-wide Changes in Muscle Stem Cells from Low Birth Weight Men. <i>Endocrine Research</i> , <b>2020</b> , 45, 58-71	1.9	4
28	Small Amounts of Dietary Medium-Chain Fatty Acids Protect Against Insulin Resistance During Caloric Excess in Humans. <i>Diabetes</i> , <b>2021</b> , 70, 91-98	0.9	4
27	Fatty acid type-specific regulation of SIRT1 does not affect insulin sensitivity in human skeletal muscle. <i>FASEB Journal</i> , <b>2019</b> , 33, 5510-5519	0.9	3
26	Effects of High-Intensity Exercise Training on Adipose Tissue Mass, Glucose Uptake and Protein Content in Pre- and Post-menopausal Women. <i>Frontiers in Sports and Active Living</i> , <b>2020</b> , 2, 60	2.3	3
25	Pharmacological targeting of $\beta_4$ nicotinic receptors improves peripheral insulin sensitivity in mice with diet-induced obesity. <i>Diabetologia</i> , <b>2020</b> , 63, 1236-1247	10.3	3
24	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 318, E311-E312	6	3

23	Serum Is Not Necessary for Prior Pharmacological Activation of AMPK to Increase Insulin Sensitivity of Mouse Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	3
22	Rapid radiochemical filter paper assay for determination of hexokinase activity and affinity for glucose-6-phosphate. <i>Journal of Applied Physiology</i> , <b>2019</b> , 127, 661-667	3.7	3
21	Physical activity attenuates postprandial hyperglycaemia in homozygous TBC1D4 loss-of-function mutation carriers. <i>Diabetologia</i> , <b>2021</b> , 64, 1795-1804	10.3	3
20	Blinded by the reference protein?. <i>Journal of Applied Physiology</i> , <b>2020</b> , 128, 1462-1463	3.7	2
19	Kinase Activity Determination of Specific AMPK Complexes/Heterotrimers in the Skeletal Muscle. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1732, 215-228	1.4	2
18	Exercise physiology: from performance studies to muscle physiology and cardiovascular adaptations. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 943-4	3.7	2
17	Factors Mediating Exercise-induced Organ Crosstalk.. <i>Acta Physiologica</i> , <b>2022</b> , e13766	5.6	2
16	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. <i>Journal of Physiology</i> , <b>2021</b> , 599, 3081-3100	3.9	2
15	Identifying the Heterotrimeric Complex Stoichiometry of AMPK in Skeletal Muscle by Immunoprecipitation. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1732, 203-213	1.4	1
14	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells.. <i>Nature Communications</i> , <b>2022</b> , 13, 22	17.4	1
13	Measurement of Insulin- and Contraction-Stimulated Glucose Uptake in Isolated and Incubated Mature Skeletal Muscle from Mice. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	1
12	The Cancer Drug Dasatinib Increases PGC-1 $\alpha$ in Adipose Tissue but Has Adverse Effects on Glucose Tolerance in Obese Mice. <i>Endocrinology</i> , <b>2016</b> , 157, 4184-4191	4.8	1
11	Comment on De Wendt et al. Contraction-Mediated Glucose Transport in Skeletal Muscle Is Regulated by a Framework of AMPK, TBC1D1/4, and Rac1. <i>Diabetes</i> 2021;70:2796-2809.. <i>Diabetes</i> , <b>2022</b> , 71, e3-e4	0.9	1
10	Interactions between insulin and exercise. <i>Biochemical Journal</i> , <b>2021</b> , 478, 3827-3846	3.8	0
9	Effect of exercise training on skeletal muscle protein expression in relation to insulin sensitivity: Per-protocol analysis of a randomized controlled trial (GO-ACTIWE). <i>Physiological Reports</i> , <b>2021</b> , 9, e14850	2.6	0
8	INFLUENCE OF THE SYMPATHO-ADRENAL SYSTEM ON MUSCLE METABOLISM DURING EXERCISE. <i>Clinical Physiology</i> , <b>1981</b> , 1, 54-59		
7	Functional sympatholysis in mouse skeletal muscle involves sarcoplasmic reticulum swelling in arterial smooth muscle cells. <i>Physiological Reports</i> , <b>2021</b> , 9, e15133	2.6	
6	Carboxylesterase 1 gene duplication and mRNA expression in adipose tissue are linked to obesity and metabolic function. <i>FASEB Journal</i> , <b>2013</b> , 27, 701.6	0.9	

- 5 AMPK regulates contraction-induced glucose uptake in situ but not ex vivo. *FASEB Journal*, **2013**, 27, 1202.12 0.9
- 4 A novel AMPK activator, PT-1, increases gamma1 AMPKassociated activity, but not gamma3 AMPK-associated activity or glucose transport. *FASEB Journal*, **2013**, 27, 1169.3 0.9
- 3 Exercise-induced up-regulation of skeletal muscle Nampt protein is independent of AMP-activated protein kinase. *FASEB Journal*, **2013**, 27, lb806 0.9
- 2 Rac1 is a novel regulator of stretch-induced glucose uptake in muscle. *FASEB Journal*, **2013**, 27, 1152.7 0.9
- 1 Exercise-Regulated Skeletal Muscle Glucose Uptake. *Physiology in Health and Disease*, **2022**, 115-136 0.2