JÃ¸rgen Wojtaszewski

List of Publications by Year
in descending order

172 papers	12,422 citations	25034 57 h-index	27406 106 g-index
184 all docs	184 docs citations	184 times ranked	11544 citing authors

#	Article	IF	Citations
1	Exercise, GLUT4, and Skeletal Muscle Glucose Uptake. Physiological Reviews, 2013, 93, 993-1017.	28.8	900
2	Strength Training Increases Insulin-Mediated Glucose Uptake, GLUT4 Content, and Insulin Signaling in Skeletal Muscle in Patients With Type 2 Diabetes. Diabetes, 2004, 53, 294-305.	0.6	498
3	Knockout of the Î±2 but Not Î±1 5â€²-AMP-activated Protein Kinase Isoform Abolishes 5-Aminoimidazole-4-carboxamide-1-Î²-4-ribofuranosidebut Not Contraction-induced Glucose Uptake in Skeletal Muscle. Journal of Biological Chemistry, 2004, 279, 1070-1079.	3.4	484
4	Muscle Glucose Metabolism following Exercise in the Rat. Journal of Clinical Investigation, 1982, 69, 785-793.	8.2	435
5	Isoformâ€specific and exercise intensityâ€dependent activation of 5â€²â€AMPâ€activated protein kinase in human skeletal muscle. Journal of Physiology, 2000, 528, 221-226.	2.9	378
6	AMPK and the biochemistry of exercise: implications for human health and disease. Biochemical Journal, 2009, 418, 261-275.	3.7	375
7	AMP-activated protein kinase (AMPK) Î²1Î²2 muscle null mice reveal an essential role for AMPK in maintaining mitochondrial content and glucose uptake during exercise. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16092-16097.	7.1	357
8	Exercise-stimulated glucose uptake â€" regulation and implications for glycaemic control. Nature Reviews Endocrinology, 2017, 13, 133-148.	9.6	312
9	AMPK in skeletal muscle function and metabolism. FASEB Journal, 2018, 32, 1741-1777.	0.5	289
10	Regulation of 5â€²AMP-activated protein kinase activity and substrate utilization in exercising human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2003, 284, E813-E822.	3.5	281
11	Oral creatine supplementation facilitates the rehabilitation of disuse atrophy and alters the expression of muscle myogenic factors in humans. Journal of Physiology, 2001, 536, 625-633.	2.9	257
12	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. Diabetes, 2014, 63, 1725-1737.	0.6	220
13	Activation of Skeletal Muscle AMPK Promotes Glucose Disposal and Glucose Lowering in Non-human Primates and Mice. Cell Metabolism, 2017, 25, 1147-1159.e10.	16.2	205
14	Glucose, exercise and insulin: emerging concepts. Journal of Physiology, 2001, 535, 313-322.	2.9	198
15	Exercise modulates postreceptor insulin signaling and glucose transport in muscle-specific insulin receptor knockout mice. Journal of Clinical Investigation, 1999, 104, 1257-1264.	8.2	192
16	AMPK controls exercise endurance, mitochondrial oxidative capacity, and skeletal muscle integrity. FASEB Journal, 2014, 28, 3211-3224.	0.5	182
17	Possible CaMKK-dependent regulation of AMPK phosphorylation and glucose uptake at the onset of mild tetanic skeletal muscle contraction. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1308-E1317.	3.5	177
18	Caffeine ingestion does not alter carbohydrate or fat metabolism in human skeletal muscle during exercise. Journal of Physiology, 2000, 529, 837-847.	2.9	174

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19	Effects of Endurance Exercise Training on Insulin Signaling in Human Skeletal Muscle. Diabetes, 2007, 56, 2093-2102.	0.6	162
20	Role of Akt substrate of 160ÂkDa in insulin-stimulated and contraction-stimulated glucose transport. Applied Physiology, Nutrition and Metabolism, 2007, 32, 557-566.	1.9	155
21	Human Muscle Fiber Typeâ€"Specific Insulin Signaling: Impact of Obesity and Type 2 Diabetes. Diabetes, 2015, 64, 485-497.	0.6	150
22	5â€²AMP activated protein kinase expression in human skeletal muscle: effects of strength training and type 2 diabetes. Journal of Physiology, 2005, 564, 563-573.	2.9	141
23	Enhanced Muscle Insulin Sensitivity After Contraction/Exercise Is Mediated by AMPK. Diabetes, 2017, 66, 598-612.	0.6	137
24	Genetic disruption of AMPK signaling abolishes both contraction- and insulin-stimulated TBC1D1 phosphorylation and 14-3-3 binding in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E665-E675.	3.5	136
25	5â€²-AMP-activated protein kinase activity and protein expression are regulated by endurance training in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E411-E417.	3.5	133
26	5â€²-AMP-activated protein kinase activity and subunit expression in exercise-trained human skeletal muscle. Journal of Applied Physiology, 2003, 94, 631-641.	2.5	129
27	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature Communications, 2019, 10, 4623.	12.8	128
28	Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. Diabetes, 2013, 62, 1139-1151.	0.6	126
29	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. Cell Metabolism, 2021, 33, 758-780.	16.2	124
30	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. Diabetes, 2017, 66, 1501-1510.	0.6	120
31	Akt and Rac1 signaling are jointly required for insulin-stimulated glucose uptake in skeletal muscle and downregulated in insulin resistance. Cellular Signalling, 2014, 26, 323-331.	3.6	117
32	Exercise and insulin cause GLUT-4 translocation in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E733-E741.	3.5	115
33	Prior AICAR Stimulation Increases Insulin Sensitivity in Mouse Skeletal Muscle in an AMPK-Dependent Manner. Diabetes, 2015, 64, 2042-2055.	0.6	115
34	Glycogen synthase localization and activity in rat skeletal muscle is strongly dependent on glycogen content. Journal of Physiology, 2001, 531, 757-769.	2.9	113
35	Lipid-Induced Insulin Resistance Affects Women Less Than Men and Is Not Accompanied by Inflammation or Impaired Proximal Insulin Signaling. Diabetes, 2011, 60, 64-73.	0.6	106
36	Invited Review: Effect of acute exercise on insulin signaling and action in humans. Journal of Applied Physiology, 2002, 93, 384-392.	2.5	103

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37	Acute exercise and physiological insulin induce distinct phosphorylation signatures on TBC1D1 and TBC1D4 proteins in human skeletal muscle. Journal of Physiology, 2014, 592, 351-375.	2.9	95
38	Marathon running transiently increases câ€Jun NH 2 â€terminal kinase and p38Î³ activities in human skeletal muscle. Journal of Physiology, 2000, 526, 663-669.	2.9	93
39	A-769662 activates AMPK Î²₁-containing complexes but induces glucose uptake through a PI3-kinase-dependent pathway in mouse skeletal muscle. American Journal of Physiology - Cell Physiology, 2009, 297, C1041-C1052.	4.6	93
40	Human muscle fibre typeâ€specific regulation of AMPK and downstream targets by exercise. Journal of Physiology, 2015, 593, 2053-2069.	2.9	90
41	Rac1 governs exerciseâ€stimulated glucose uptake in skeletal muscle through regulation of GLUT4 translocation in mice. Journal of Physiology, 2016, 594, 4997-5008.	2.9	87
42	Identification of a novel phosphorylation site on TBC1D4 regulated by AMP-activated protein kinase in skeletal muscle. American Journal of Physiology - Cell Physiology, 2010, 298, C377-C385.	4.6	86
43	Activation of AMP-activated protein kinase rapidly suppresses multiple pro-inflammatory pathways in adipocytes including IL-1 receptor-associated kinase-4 phosphorylation. Molecular and Cellular Endocrinology, 2017, 440, 44-56.	3.2	83
44	Effects of acute exercise and training on insulin action and sensitivity: focus on molecular mechanisms in muscle. Essays in Biochemistry, 2006, 42, 31-46.	4.7	79
45	Genetic impairment of AMPKÎ±2 signaling does not reduce muscle glucose uptake during treadmill exercise in mice. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E924-E934.	3.5	78
46	Regulation of autophagy in human skeletal muscle: effects of exercise, exercise training and insulin stimulation. Journal of Physiology, 2016, 594, 745-761.	2.9	78
47	Alpha and Beta adrenergic effects on metabolism in contracting, perfused muscle. Acta Physiologica Scandinavica, 1982, 116, 215-222.	2.2	77
48	AMPK Î±1 Activation Is Required for Stimulation of Glucose Uptake by Twitch Contraction, but Not by H2O2, in Mouse Skeletal Muscle. PLoS ONE, 2008, 3, e2102.	2.5	77
49	A new method to study changes in microvascular blood volume in muscle and adipose tissue: real-time imaging in humans and rat. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H450-H458.	3.2	71
50	Effect of antioxidant supplementation on insulin sensitivity in response to endurance exercise training. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E761-E770.	3.5	70
51	Pharmacological but not physiological GDF15 suppresses feeding and the motivation to exercise. Nature Communications, 2021, 12, 1041.	12.8	69
52	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
53	AMPKÎ± is critical for enhancing skeletal muscle fatty acid utilization during<i>in vivo</i>exercise in mice. FASEB Journal, 2015, 29, 1725-1738.	0.5	68
54	AMPK and TBC1D1 Regulate Muscle Glucose Uptake After, but Not During, Exercise and Contraction. Diabetes, 2019, 68, 1427-1440.	0.6	67

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55	Contraction-stimulated glucose transport in muscle is controlled by AMPK and mechanical stress but not sarcoplasmatic reticulum Ca2+ release. Molecular Metabolism, 2014, 3, 742-753.	6.5	65
56	Dysregulation of Glycogen Synthase COOH- and NH2-Terminal Phosphorylation by Insulin in Obesity and Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4547-4556.	3.6	64
57	Role of AMPK in regulation of LC3 lipidation as a marker of autophagy in skeletal muscle. Cellular Signalling, 2016, 28, 663-674.	3.6	62
58	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. Diabetes, 2016, 65, 1219-1230.	0.6	62
59	Rac1 â€" a novel regulator of contractionâ€stimulated glucose uptake in skeletal muscle. Experimental Physiology, 2014, 99, 1574-1580.	2.0	58
60	Two weeks of metformin treatment induces AMPK-dependent enhancement of insulin-stimulated glucose uptake in mouse soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E1099-E1109.	3.5	58
61	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. Molecular Metabolism, 2018, 16, 24-34.	6.5	58
62	Phosphoproteomics reveals conserved exerciseâ€stimulated signaling and AMPK regulation of storeâ€operated calcium entry. EMBO Journal, 2019, 38, e102578.	7.8	54
63	Benzimidazole derivative small-molecule 991 enhances AMPK activity and glucose uptake induced by AICAR or contraction in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E706-E719.	3.5	53
64	Housing temperature influences exercise training adaptations in mice. Nature Communications, 2020, 11, 1560.	12.8	52
65	GLP-1 increases microvascular recruitment but not glucose uptake in human and rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E355-E362.	3.5	51
66	Molecular Mechanisms in Skeletal Muscle Underlying Insulin Resistance in Women Who Are Lean With Polycystic Ovary Syndrome. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 1841-1854.	3.6	50
67	Rac1 and AMPK Account for the Majority of Muscle Glucose Uptake Stimulated by Ex Vivo Contraction but Not In Vivo Exercise. Diabetes, 2017, 66, 1548-1559.	0.6	48
68	PT-1 selectively activates AMPK-Î³1 complexes in mouse skeletal muscle, but activates all three Î³ subunit complexes in cultured human cells by inhibiting the respiratory chain. Biochemical Journal, 2015, 467, 461-472.	3.7	47
69	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. Diabetes, 2017, 66, 2583-2595.	0.6	46
70	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. Molecular Metabolism, 2016, 5, 646-655.	6.5	44
71	Quantitative proteomic characterization of cellular pathways associated with altered insulin sensitivity in skeletal muscle following high-fat diet feeding and exercise training. Scientific Reports, 2018, 8, 10723.	3.3	44
72	Personalized phosphoproteomics identifies functional signaling. Nature Biotechnology, 2022, 40, 576-584.	17.5	44

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73	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. Journal of Physiology, 2017, 595, 4845-4855.	2.9	43
74	Enhanced insulin signaling in human skeletal muscle and adipose tissue following gastric bypass surgery. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R510-R524.	1.8	42
75	Increased skeletal muscle capillarization enhances insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E1105-E1116.	3.5	41
76	Rac1 muscle knockout exacerbates the detrimental effect of highâ€fat diet on insulinâ€stimulated muscle glucose uptake independently of Akt. Journal of Physiology, 2018, 596, 2283-2299.	2.9	41
77	Current advances in our understanding of exercise as medicine in metabolic disease. Current Opinion in Physiology, 2019, 12, 12-19.	1.8	41
78	Exercise training reduces the insulinâ€sensitizing effect of a single bout of exercise in human skeletal muscle. Journal of Physiology, 2019, 597, 89-103.	2.9	41
79	TBC1D4 Is Necessary for Enhancing Muscle Insulin Sensitivity in Response to AICAR and Contraction. Diabetes, 2019, 68, 1756-1766.	0.6	40
80	Effects of oneâ€legged highâ€intensity interval training on insulinâ€mediated skeletal muscle glucose homeostasis in patients with type 2 diabetes. Acta Physiologica, 2019, 226, e13245.	3.8	40
81	New Nordic Dietâ€"Induced Weight Loss Is Accompanied by Changes in Metabolism and AMPK Signaling in Adipose Tissue. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 3509-3519.	3.6	39
82	Muscle- and fibre type-specific expression of glucose transporter 4, glycogen synthase and glycogen phosphorylase proteins in human skeletal muscle. Pflugers Archiv European Journal of Physiology, 2004, 447, 452-456.	2.8	38
83	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. Journal of Physiology, 2007, 582, 1289-1301.	2.9	37
84	Differential effect of bicycling exercise intensity on activity and phosphorylation of atypical protein kinase C and extracellular signal-regulated protein kinase in skeletal muscle. Journal of Physiology, 2004, 560, 909-918.	2.9	36
85	Effect of birth weight and 12 weeks of exercise training on exercise-induced AMPK signaling in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E1379-E1390.	3.5	35
86	Insulinâ€induced membrane permeability to glucose in human muscles at rest and following exercise. Journal of Physiology, 2020, 598, 303-315.	2.9	35
87	DOPA, dopamine, and DOPAC concentrations in the rat gastrointestinal tract decrease during fasting. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E815-E822.	3.5	34
88	Intact initiation of autophagy and mitochondrial fission by acute exercise in skeletal muscle of patients with TypeÂ2 diabetes. Clinical Science, 2017, 131, 37-47.	4.3	34
89	Intact regulation of muscle expression and circulating levels of myokines in response to exercise in patients withÂtype 2 diabetes. Physiological Reports, 2018, 6, e13723.	1.7	33
90	Effects of Exercise Training on Regulation of Skeletal Muscle Glucose Metabolism in Elderly Men. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 866-872.	3.6	32

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91	Inducible deletion of skeletal muscle AMPKÎ± reveals that AMPK is required for nucleotide balance but dispensable for muscle glucose uptake and fat oxidation during exercise. Molecular Metabolism, 2020, 40, 101028.	6.5	32
92	Growth Factor-Dependent and -Independent Activation of mTORC2. Trends in Endocrinology and Metabolism, 2020, 31, 13-24.	7.1	31
93	Interactions between insulin and exercise. Biochemical Journal, 2021, 478, 3827-3846.	3.7	31
94	Genetic and metabolic effects on skeletal muscle AMPK in young and older twins. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E956-E964.	3.5	30
95	Is GLUT4 translocation the answer to exercise-stimulated muscle glucose uptake?. American Journal of Physiology - Endocrinology and Metabolism, 2021, 320, E240-E243.	3.5	30
96	Factors mediating exerciseâ€induced organ crosstalk. Acta Physiologica, 2022, 234, e13766.	3.8	30
97	Epinephrine-stimulated glycogen breakdown activates glycogen synthase and increases insulin-stimulated glucose uptake in epitrochlearis muscles. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E231-E240.	3.5	29
98	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. Molecular Metabolism, 2020, 39, 100998.	6.5	29
99	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E142-E153.	3.5	28
100	AMPKÎ± is essential for acute exercise-induced gene responses but not for exercise training-induced adaptations in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E900-E914.	3.5	28
101	Skeletal muscle and hormonal adaptation to physical training in the rat: role of the sympathoâ€adrenal system. Acta Physiologica Scandinavica, 1985, 123, 127-138.	2.2	27
102	Globular adiponectin controls insulin-mediated vasoreactivity in muscle through AMPKÎ±2. Vascular Pharmacology, 2016, 78, 24-35.	2.1	26
103	GDF15 in Appetite and Exercise: Essential Player or Coincidental Bystander?. Endocrinology, 2022, 163, .	2.8	26
104	GLUT-4 translocation in skeletal muscle studied with a cell-free assay: involvement of phospholipase D. American Journal of Physiology - Endocrinology and Metabolism, 2001, 281, E608-E618.	3.5	25
105	Effect of bariatric surgery on plasma GDF15 in humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E615-E621.	3.5	25
106	Thyroid hormone receptor Î± in skeletal muscle is essential for T3â€mediated increase in energy expenditure. FASEB Journal, 2020, 34, 15480-15491.	0.5	25
107	Glucometabolic consequences of acute and prolonged inhibition of fatty acid oxidation. Journal of Lipid Research, 2020, 61, 10-19.	4.2	23
108	Quantification of exerciseâ€regulated ubiquitin signaling in human skeletal muscle identifies protein modification cross talk via NEDDylation. FASEB Journal, 2020, 34, 5906-5916.	0.5	23

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109	Circulating Follistatin and Activin A and Their Regulation by Insulin in Obesity and Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 1343-1354.	3.6	23
110	EMG-Normalised Kinase Activation during Exercise Is Higher in Human Gastrocnemius Compared to Soleus Muscle. PLoS ONE, 2012, 7, e31054.	2.5	22
111	Knockout of the predominant conventional PKC isoform, PKCÎ±, in mouse skeletal muscle does not affect contraction-stimulated glucose uptake. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E340-E348.	3.5	21
112	Role of AMP-Activated Protein Kinase for Regulating Post-exercise Insulin Sensitivity. Exs, 2016, 107, 81-126.	1.4	21
113	Endothelial mechanotransduction proteins and vascular function are altered by dietary sucrose supplementation in healthy young male subjects. Journal of Physiology, 2017, 595, 5557-5571.	2.9	21
114	Effects of menopause and high-intensity training on insulin sensitivity and muscle metabolism. Menopause, 2018, 25, 165-175.	2.0	21
115	A Single Bout of One-Legged Exercise to Local Exhaustion Decreases Insulin Action in Nonexercised Muscle Leading to Decreased Whole-Body Insulin Action. Diabetes, 2020, 69, 578-590.	0.6	21
116	Effects of hyperinsulinemia and hyperglycemia on insulin receptor function and glycogen synthase activation in skeletal muscle of normal man. Metabolism: Clinical and Experimental, 1991, 40, 830-835.	3.4	20
117	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. Diabetes, 2019, 68, 502-514.	0.6	20
118	Endurance training augments the stimulatory effect of epinephrine on oxygen consumption in perfused skeletal muscle. Acta Physiologica Scandinavica, 1984, 120, 613-615.	2.2	19
119	Reduced malonyl-CoA content in recovery from exercise correlates with improved insulin-stimulated glucose uptake in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E787-E795.	3.5	18
120	Metformin does not compromise energy status in human skeletal muscle at rest or during acute exercise: A randomised, crossover trial. Physiological Reports, 2019, 7, e14307.	1.7	18
121	Coingestion of protein and carbohydrate in the early recovery phase, compared with carbohydrate only, improves endurance performance despite similar glycogen degradation and AMPK phosphorylation. Journal of Applied Physiology, 2020, 129, 297-310.	2.5	18
122	Small Amounts of Dietary Medium-Chain Fatty Acids Protect Against Insulin Resistance During Caloric Excess in Humans. Diabetes, 2021, 70, 91-98.	0.6	18
123	Post-exercise recovery for the endurance athlete with type 1 diabetes: a consensus statement. Lancet Diabetes and Endocrinology,the, 2021, 9, 304-317.	11.4	18
124	Enhanced voluntary wheel running in GPRC6A receptor knockout mice. Physiology and Behavior, 2013, 118, 144-151.	2.1	16
125	Diabetes, Insulin and Exercise. Sports Medicine, 1986, 3, 275-288.	6.5	15
126	Variable reliability of surrogate measures of insulin sensitivity after Roux-en-Y gastric bypass. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 312, R797-R805.	1.8	15

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127	Insulinâ€stimulated glucose uptake partly relies on p21â€activated kinase (PAK)2, but not PAK1, in mouse skeletal muscle. Journal of Physiology, 2020, 598, 5351-5377.	2.9	15
128	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. Nature Communications, 2022, 13, 22.	12.8	15
129	Glucose metabolism and metabolic flexibility in cultured skeletal muscle cells is related to exercise status in young male subjects. Archives of Physiology and Biochemistry, 2018, 124, 119-130.	2.1	14
130	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. Endocrinology, 2016, 157, 3009-3015.	2.8	13
131	Mechanisms Underlying Absent Training-Induced Improvement in Insulin Action in Lean, Hyperandrogenic Women With Polycystic Ovary Syndrome. Diabetes, 2020, 69, 2267-2280.	0.6	13
132	The insulinâ€sensitizing effect of a single exercise bout is similar in type I and type II human muscle fibres. Journal of Physiology, 2020, 598, 5687-5699.	2.9	13
133	Colchicine treatment impairs skeletal muscle mitochondrial function and insulin sensitivity in an ageâ€specific manner. FASEB Journal, 2020, 34, 8653-8670.	0.5	13
134	<i>Î²</i>2-Agonist Induces Net Leg Glucose Uptake and Free Fatty Acid Release at Rest but Not During Exercise in Young Men. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 647-657.	3.6	12
135	Is contractionâ€stimulated glucose transport feedforward regulated by Ca²⁺?. Experimental Physiology, 2014, 99, 1562-1568.	2.0	11
136	Ameliorating Effects of Lifelong Physical Activity on Healthy Aging and Mitochondrial Function in Human White Adipose Tissue. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 1101-1111.	3.6	11
137	Metabolic and Transcriptional Changes in Cultured Muscle Stem Cells from Low Birth Weight Subjects. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2254-2264.	3.6	9
138	Exercise Induction of Key Transcriptional Regulators of Metabolic Adaptation in Muscle Is Preserved in Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 4909-4920.	3.6	9
139	Pharmacological targeting of Î±3Î²4 nicotinic receptors improves peripheral insulin sensitivity in mice with diet-induced obesity. Diabetologia, 2020, 63, 1236-1247.	6.3	9
140	The p21â€activated kinase 2 (PAK2), but not PAK1, regulates contractionâ€stimulated skeletal muscle glucose transport. Physiological Reports, 2020, 8, e14460.	1.7	9
141	Î±-MSH Stimulates Glucose Uptake in Mouse Muscle and Phosphorylates Rab-GTPase-Activating Protein TBC1D1 Independently of AMPK. PLoS ONE, 2016, 11, e0157027.	2.5	8
142	Skeletal muscle adaptations to exercise are not influenced by metformin treatment in humans: secondary analyses of 2 randomized, clinical trials. Applied Physiology, Nutrition and Metabolism, 2022, 47, 309-320.	1.9	8
143	Effect of Long-Term Voluntary Exercise Wheel Running on Susceptibility to Bacterial Pulmonary Infections in a Mouse Model. PLoS ONE, 2013, 8, e82869.	2.5	7
144	Rapid radiochemical filter paper assay for determination of hexokinase activity and affinity for glucose-6-phosphate. Journal of Applied Physiology, 2019, 127, 661-667.	2.5	7

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145	Epigenome- and Transcriptome-wide Changes in Muscle Stem Cells from Low Birth Weight Men. Endocrine Research, 2020, 45, 58-71.	1.2	7
146	Effects of High-Intensity Exercise Training on Adipose Tissue Mass, Glucose Uptake and Protein Content in Pre- and Post-menopausal Women. Frontiers in Sports and Active Living, 2020, 2, 60.	1.8	7
147	Measurement of Insulin- and Contraction-Stimulated Glucose Uptake in Isolated and Incubated Mature Skeletal Muscle from Mice. Journal of Visualized Experiments, 2021, , .	0.3	7
148	The effect of training on responses of ?-endorphin and other pituitary hormones to insulin-induced hypoglycemia. European Journal of Applied Physiology and Occupational Physiology, 1985, 54, 476-479.	1.2	6
149	Kinase Activity Determination of Specific AMPK Complexes/Heterotrimers in the Skeletal Muscle. Methods in Molecular Biology, 2018, 1732, 215-228.	0.9	6
150	Physical activity attenuates postprandial hyperglycaemia in homozygous TBC1D4 loss-of-function mutation carriers. Diabetologia, 2021, 64, 1795-1804.	6.3	6
151	AXIN1 knockout does not alter AMPK/mTORC1 regulation and glucose metabolism in mouse skeletal muscle. Journal of Physiology, 2021, 599, 3081-3100.	2.9	6
152	The Cancer Drug Dasatinib Increases PGC-1Î± in Adipose Tissue but Has Adverse Effects on Glucose Tolerance in Obese Mice. Endocrinology, 2016, 157, 4184-4191.	2.8	5
153	Decreased spontaneous activity in AMPK Î±2 muscle specific kinase dead mice is not caused by changes in brain dopamine metabolism. Physiology and Behavior, 2016, 164, 300-305.	2.1	5
154	Serum Is Not Necessary for Prior Pharmacological Activation of AMPK to Increase Insulin Sensitivity of Mouse Skeletal Muscle. International Journal of Molecular Sciences, 2018, 19, 1201.	4.1	5
155	Fatty acid typeâ€"specific regulation of SIRT1 does not affect insulin sensitivity in human skeletal muscle. FASEB Journal, 2019, 33, 5510-5519.	0.5	4
156	Perfusion controls muscle glucose uptake by altering the rate of glucose dispersion in vivo. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E311-E312.	3.5	4
157	Exercise increases phosphorylation of the putative mTORC2 activity readout NDRG1 in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E63-E73.	3.5	4
158	Salbutamol Increases Leg Glucose Uptake and Metabolic Rate but not Muscle Glycogen Resynthesis in Recovery From Exercise. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e1193-e1203.	3.6	3
159	Illumination of the Endogenous Insulin-Regulated TBC1D4 Interactome in Human Skeletal Muscle. Diabetes, 2022, 71, 906-920.	0.6	3
160	Exercise physiology: From performance studies to muscle physiology and cardiovascular adaptations. Journal of Applied Physiology, 2014, 117, 943-944.	2.5	2
161	Blinded by the reference protein?. Journal of Applied Physiology, 2020, 128, 1462-1463.	2.5	2
162	Effect of exercise training on skeletal muscle protein expression in relation to insulin sensitivity: Perâ€protocol analysis of a randomized controlled trial (GOâ€ACTIWE). Physiological Reports, 2021, 9, e14850.	1.7	2

#	Article	IF	Citations
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