Erik A Richter

List of Publications by Year
in descending order

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362 papers	27,529 citations	3334 91 h-index	9103 144 g-index
385 all docs	385 docs citations	385 times ranked	19051 citing authors

#	Article	IF	Citations
1	Exercise, GLUT4, and Skeletal Muscle Glucose Uptake. Physiological Reviews, 2013, 93, 993-1017.	28.8	900
2	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
3	The AMP-activated protein kinase Î±2 catalytic subunit controls whole-body insulin sensitivity. Journal of Clinical Investigation, 2003, 111, 91-98.	8.2	444
4	Timing of postexercise protein intake is important for muscle hypertrophy with resistance training in elderly humans. Journal of Physiology, 2001, 535, 301-311.	2.9	442
5	Muscle Glucose Metabolism following Exercise in the Rat. Journal of Clinical Investigation, 1982, 69, 785-793.	8.2	435
6	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. Cell Metabolism, 2018, 27, 237-251.e4.	16.2	426
7	Skeletal Muscle Lipid Metabolism in Exercise and Insulin Resistance. Physiological Reviews, 2006, 86, 205-243.	28.8	392
8	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
9	AMPK and the biochemistry of exercise: implications for human health and disease. Biochemical Journal, 2009, 418, 261-275.	3.7	375
10	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
11	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. Cell Metabolism, 2015, 22, 922-935.	16.2	333
12	Effect of exercise on insulin action in human skeletal muscle. Journal of Applied Physiology, 1989, 66, 876-885.	2.5	326
13	Insulin signaling and insulin sensitivity after exercise in human skeletal muscle. Diabetes, 2000, 49, 325-331.	0.6	321
14	Exercise-stimulated glucose uptake â€" regulation and implications for glycaemic control. Nature Reviews Endocrinology, 2017, 13, 133-148.	9.6	312
15	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
16	Skeletal Muscle Glucose Uptake During Exercise: How is it Regulated?. Physiology, 2005, 20, 260-270.	3.1	265
17	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
18	Effects of Î±â€AMPK knockout on exerciseâ€induced gene activation in mouse skeletal muscle. FASEB Journal, 2005, 19, 1146-1148.	0.5	248

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19	AMPK-Mediated AS160 Phosphorylation in Skeletal Muscle Is Dependent on AMPK Catalytic and Regulatory Subunits. Diabetes, 2006, 55, 2051-2058.	0.6	239
20	Glycogen-Dependent Effects of 5-Aminoimidazole-4-Carboxamide (AICA)-Riboside on AMP-Activated Protein Kinase and Glycogen Synthase Activities in RatSkeletal Muscle. Diabetes, 2002, 51, 284-292.	0.6	238
21	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
22	The Â2-5'AMP-Activated Protein Kinase Is a Site 2 Glycogen Synthase Kinase in Skeletal Muscle and Is Responsive to Glucose Loading. Diabetes, 2004, 53, 3074-3081.	0.6	215
23	Muscle contractions induce interleukinâ€6 mRNA production in rat skeletal muscles. Journal of Physiology, 2000, 528, 157-163.	2.9	210
24	Gender differences in substrate utilization during submaximal exercise in endurance-trained subjects. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E435-E447.	3.5	207
25	Regulation of glucose and glycogen metabolism during and after exercise. Journal of Physiology, 2012, 590, 1069-1076.	2.9	203
26	Glucose, exercise and insulin: emerging concepts. Journal of Physiology, 2001, 535, 313-322.	2.9	198
27	Ca²⁺â€“calmodulinâ€dependent protein kinase expression and signalling in skeletal muscle during exercise. Journal of Physiology, 2006, 574, 889-903.	2.9	198
28	Role of AMPK in skeletal muscle metabolic regulation and adaptation in relation to exercise. Journal of Physiology, 2006, 574, 17-31.	2.9	196
29	Xanthine oxidase in human skeletal muscle following eccentric exercise: a role in inflammation.. Journal of Physiology, 1997, 498, 239-248.	2.9	186
30	Insulin Signaling in Human Skeletal Muscle: Time Course and Effect of Exercise. Diabetes, 1997, 46, 1775-1781.	0.6	179
31	Myocellular triacylglycerol breakdown in females but not in males during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E634-E642.	3.5	179
32	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
33	Effect of muscle acidity on muscle metabolism and fatigue during intense exercise in man.. Journal of Physiology, 1996, 495, 587-596.	2.9	175
34	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
35	Higher skeletal muscle Î±2AMPK activation and lower energy charge and fat oxidation in men than in women during submaximal exercise. Journal of Physiology, 2006, 574, 125-138.	2.9	167
36	Utilization of skeletal muscle triacylglycerol during postexercise recovery in humans. American Journal of Physiology - Endocrinology and Metabolism, 1998, 275, E332-E337.	3.5	165

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37	The effect of graded exercise on ILâ€6 release and glucose uptake in human skeletal muscle. Journal of Physiology, 2003, 546, 299-305.	2.9	164
38	Types of carbohydrate in an ordinary diet affect insulin action and muscle substrates in humans. American Journal of Clinical Nutrition, 1996, 63, 47-53.	4.7	163
39	Effects of insulin and exercise on muscle lipoprotein lipase activity in man and its relation to insulin action.. Journal of Clinical Investigation, 1989, 84, 1124-1129.	8.2	163
40	Effects of Endurance Exercise Training on Insulin Signaling in Human Skeletal Muscle. Diabetes, 2007, 56, 2093-2102.	0.6	162
41	Rac1 Signaling Is Required for Insulin-Stimulated Glucose Uptake and Is Dysregulated in Insulin-Resistant Murine and Human Skeletal Muscle. Diabetes, 2013, 62, 1865-1875.	0.6	159
42	Dissociation of AMP-activated protein kinase activation and glucose transport in contracting slow-twitch muscle. Diabetes, 2000, 49, 1281-1287.	0.6	152
43	Caffeine-Induced Impairment of Insulin Action but Not Insulin Signaling in Human Skeletal Muscle Is Reduced by Exercise. Diabetes, 2002, 51, 583-590.	0.6	148
44	Adenosine receptors mediate synergistic stimulation of glucose uptake and transport by insulin and by contractions in rat skeletal muscle.. Journal of Clinical Investigation, 1994, 93, 974-981.	8.2	148
45	Role of AMPKÎ±2 in basal, training-, and AICAR-induced GLUT4, hexokinase II, and mitochondrial protein expression in mouse muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E331-E339.	3.5	147
46	Fiber type-specific expression of GLUT4 in human skeletal muscle: influence of exercise training.. Diabetes, 2000, 49, 1092-1095.	0.6	144
47	Malonyl-CoA and carnitine in regulation of fat oxidation in human skeletal muscle during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2005, 288, E133-E142.	3.5	143
48	Fat utilization during exercise: adaptation to a fat-rich diet increases utilization of plasma fatty acids and very low density lipoprotein-triacylglycerol in humans. Journal of Physiology, 2001, 537, 1009-1020.	2.9	140
49	AMP deamination and purine exchange in human skeletal muscle during and after intense exercise. Journal of Physiology, 1999, 520, 909-920.	2.9	139
50	Catecholamines and Exercise. Diabetes, 1979, 28, 58-62.	0.6	138
51	Interaction of training and diet on metabolism and endurance during exercise in man.. Journal of Physiology, 1996, 492, 293-306.	2.9	138
52	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
53	Effect of Oral Creatine Supplementation on Human Muscle GLUT4 Protein Content After Immobilization. Diabetes, 2001, 50, 18-23.	0.6	133
54	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

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55	Membrane Associated Fatty Acid Binding Protein (FABPpm) in Human Skeletal Muscle Is Increased by Endurance Training. Biochemical and Biophysical Research Communications, 1997, 231, 463-465.	2.1	129
56	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
57	pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise. Cell, 2020, 183, 62-75.e17.	28.9	129
58	Cytosolic ROS production by NADPH oxidase 2 regulates muscle glucose uptake during exercise. Nature Communications, 2019, 10, 4623.	12.8	128
59	Enhanced muscle glucose metabolism after exercise in the rat: the two phases. American Journal of Physiology - Endocrinology and Metabolism, 1984, 246, E471-E475.	3.5	126
60	Rac1 Is a Novel Regulator of Contraction-Stimulated Glucose Uptake in Skeletal Muscle. Diabetes, 2013, 62, 1139-1151.	0.6	126
61	Enhanced muscle glucose metabolism after exercise: modulation by local factors. American Journal of Physiology - Endocrinology and Metabolism, 1984, 246, E476-E482.	3.5	124
62	The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia. Cell Metabolism, 2021, 33, 758-780.	16.2	124
63	Altered Skeletal Muscle Fiber Composition and Size Precede Whole-Body Insulin Resistance in Young Men with Low Birth Weight. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 1530-1534.	3.6	122
64	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. Diabetes, 2017, 66, 1501-1510.	0.6	120
65	Caffeine-induced Ca2+ release increases AMPK-dependent glucose uptake in rodent soleus muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E286-E292.	3.5	119
66	Increased Phosphorylation of Skeletal Muscle Glycogen Synthase at NH2-Terminal Sites During Physiological Hyperinsulinemia in Type 2 Diabetes. Diabetes, 2003, 52, 1393-1402.	0.6	118
67	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. Cellular Signalling, 2011, 23, 1546-1554.	3.6	118
68	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
69	Oxidation of urate in human skeletal muscle during exercise. Free Radical Biology and Medicine, 1997, 22, 169-174.	2.9	116
70	AS160 phosphorylation is associated with activation of Î±2Î²2Î³1- but not Î±2Î²2Î³3-AMPK trimeric complex in skeletal muscle during exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E715-E722.	3.5	115
71	Exercise diminishes the activity of acetyl-CoA carboxylase in human muscle. Diabetes, 2000, 49, 1295-1300.	0.6	113
72	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

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73	Effect of training in the fasted state on metabolic responses during exercise with carbohydrate intake. Journal of Applied Physiology, 2008, 104, 1045-1055.	2.5	113
74	Adipose triglyceride lipase in human skeletal muscle is upregulated by exercise training. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E445-E453.	3.5	112
75	Exercise in the fasted state facilitates fibre type-specific intramyocellular lipid breakdown and stimulates glycogen resynthesis in humans. Journal of Physiology, 2005, 564, 649-660.	2.9	111
76	Eccentric exercise decreases glucose transporter GLUT4 protein in human skeletal muscle.. Journal of Physiology, 1995, 482, 705-712.	2.9	109
77	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. Diabetologia, 2009, 52, 891-900.	6.3	109
78	Exercise increases circulating GDF15 in humans. Molecular Metabolism, 2018, 9, 187-191.	6.5	109
79	Contraction intensity and feeding affect collagen and myofibrillar protein synthesis rates differently in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E257-E269.	3.5	107
80	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
81	Perivascular Adipose Tissue Control of Insulin-Induced Vasoreactivity in Muscle Is Impaired in db/db Mice. Diabetes, 2013, 62, 590-598.	0.6	105
82	Effect of the antilipolytic nicotinic acid analogue acipimox on whole-body and skeletal muscle glucose metabolism in patients with non-insulin-dependent diabetes mellitus.. Journal of Clinical Investigation, 1991, 88, 1282-1290.	8.2	105
83	Diabetes and exercise. American Journal of Medicine, 1981, 70, 201-209.	1.5	104
84	Seven days of bed rest decrease insulin action on glucose uptake in leg and whole body. Journal of Applied Physiology, 1991, 70, 1245-1254.	2.5	104
85	Contraction-associated translocation of protein kinase C in rat skeletal muscle. FEBS Letters, 1987, 217, 232-236.	2.8	103
86	Influence of active muscle mass on glucose homeostasis during exercise in humans. Journal of Applied Physiology, 1991, 71, 552-557.	2.5	103
87	Invited Review: Effect of acute exercise on insulin signaling and action in humans. Journal of Applied Physiology, 2002, 93, 384-392.	2.5	103
88	Molecular Regulation of Fatty Acid Oxidation in Skeletal Muscle during Aerobic Exercise. Trends in Endocrinology and Metabolism, 2018, 29, 18-30.	7.1	100
89	Diminished hormonal responses to exercise in trained rats. Journal of Applied Physiology, 1977, 43, 953-958.	2.5	98
90	Increased muscle glucose uptake during contractions: no need for insulin. American Journal of Physiology - Endocrinology and Metabolism, 1984, 247, E726-E731.	3.5	96

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91	An exercise-inducible metabolite that suppresses feeding and obesity. Nature, 2022, 606, 785-790.	27.8	96
92	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
93	Circulating FGF21 in humans is potently induced by short term overfeeding of carbohydrates. Molecular Metabolism, 2017, 6, 22-29.	6.5	95
94	Improved Insulin Sensitivity After Exercise: Focus on Insulin Signaling. Obesity, 2009, 17, S15-20.	3.0	94
95	Glucose uptake and transport in contracting, perfused rat muscle with different pre-contraction glycogen concentrations.. Journal of Physiology, 1990, 427, 347-359.	2.9	93
96	Wortmannin inhibits both insulin- and contraction-stimulated glucose uptake and transport in rat skeletal muscle. Journal of Applied Physiology, 1996, 81, 1501-1509.	2.5	92
97	Exercise Alleviates Lipid-Induced Insulin Resistance in Human Skeletal Muscleâ€“Signaling Interaction at the Level of TBC1 Domain Family Member 4. Diabetes, 2012, 61, 2743-2752.	0.6	92
98	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
99	Overexpression of Monocarboxylate Transporter-1 (Slc16a1) in Mouse Pancreatic Î²-Cells Leads to Relative Hyperinsulinism During Exercise. Diabetes, 2012, 61, 1719-1725.	0.6	86
100	Noradrenaline spillover during exercise in active versus resting skeletal muscle in man. Acta Physiologica Scandinavica, 1987, 131, 507-515.	2.2	85
101	Glucose-induced insulin resistance of skeletal-muscle glucose transport and uptake. Biochemical Journal, 1988, 252, 733-737.	3.7	85
102	A Ca²⁺â€“calmodulinâ€“eEF2Kâ€“eEF2 signalling cascade, but not AMPK, contributes to the suppression of skeletal muscle protein synthesis during contractions. Journal of Physiology, 2009, 587, 1547-1563.	2.9	85
103	Current understanding of increased insulin sensitivity after exercise â€“ emerging candidates. Acta Physiologica, 2011, 202, 323-335.	3.8	85
104	Saturation kinetics of palmitate uptake in perfused skeletal muscle. FEBS Letters, 1991, 279, 327-329.	2.8	83
105	Muscle glycogen content affects insulin-stimulated glucose transport and protein kinase B activity. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E947-E955.	3.5	83
106	Exercise rapidly increases eukaryotic elongation factor 2 phosphorylation in skeletal muscle of men. Journal of Physiology, 2005, 569, 223-228.	2.9	83
107	Crucial role for LKB1 to AMPKÎ±2 axis in the regulation of CD36-mediated long-chain fatty acid uptake into cardiomyocytesâ˜†. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 212-219.	2.4	83
108	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

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109	Sucrose nonfermenting AMPK-related kinase (SNARK) mediates contraction-stimulated glucose transport in mouse skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15541-15546.	7.1	82
110	Training increases the concentration of [3H]ouabain-binding sites in rat skeletal muscle. Biochimica Et Biophysica Acta - Biomembranes, 1986, 860, 708-712.	2.6	81
111	Interleukin-6 release from human skeletal muscle during exercise: relation to AMPK activity. Journal of Applied Physiology, 2003, 95, 2273-2277.	2.5	81
112	AMPâ€activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle. Journal of Physiology, 2013, 591, 5207-5220.	2.9	81
113	Regulation of hormone-sensitive lipase activity and Ser563and Ser565phosphorylation in human skeletal muscle during exercise. Journal of Physiology, 2004, 560, 551-562.	2.9	80
114	Relationship between muscle fibre composition, glucose transporter protein 4 and exercise training: possible consequences in non-insulin-dependent diabetes mellitus. Acta Physiologica Scandinavica, 2001, 171, 267-276.	2.2	79
115	Effects of creatine supplementation and exercise training on fitness in men 55â€“75 yr old. Journal of Applied Physiology, 2003, 95, 818-828.	2.5	79
116	Deep muscle-proteomic analysis of freeze-dried human muscle biopsies reveals fiber type-specific adaptations to exercise training. Nature Communications, 2021, 12, 304.	12.8	79
117	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
118	Eccentric exercise decreases maximal insulin action in humans: muscle and systemic effects.. Journal of Physiology, 1996, 494, 891-898.	2.9	78
119	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
120	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
121	Alpha and Beta adrenergic effects on metabolism in contracting, perfused muscle. Acta Physiologica Scandinavica, 1982, 116, 215-222.	2.2	77
122	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
123	Regulation of Glycogen Synthase Kinase-3 in Human Skeletal Muscle: Effects of Food Intake and Bicycle Exercise. Diabetes, 2001, 50, 265-269.	0.6	76
124	Role of 5â€²AMPâ€activated protein kinase in glycogen synthase activity and glucose utilization: insights from patients with McArdle's disease. Journal of Physiology, 2002, 541, 979-989.	2.9	76
125	AMPK activity and isoform protein expression are similar in muscle of obese subjects with and without type 2 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2004, 286, E239-E244.	3.5	76
126	Tuning fatty acid oxidation in skeletal muscle with dietary fat and exercise. Nature Reviews Endocrinology, 2020, 16, 683-696.	9.6	74

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127	Combined creatine and protein supplementation in conjunction with resistance training promotes muscle GLUT-4 content and glucose tolerance in humans. Journal of Applied Physiology, 2003, 94, 1910-1916.	2.5	73
128	Kinetics of glucose transport in rat muscle: effects of insulin and contractions. American Journal of Physiology - Endocrinology and Metabolism, 1987, 253, E12-E20.	3.5	71
129	Extracellular-regulated protein kinase cascades are activated in response to injury in human skeletal muscle. American Journal of Physiology - Cell Physiology, 1998, 275, C555-C561.	4.6	71
130	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
131	Insulin action in human thighs after one-legged immobilization. Journal of Applied Physiology, 1989, 67, 19-23.	2.5	70
132	Allantoin formation and urate and glutathione exchange in human muscle during submaximal exercise. Free Radical Biology and Medicine, 2001, 31, 1313-1322.	2.9	70
133	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
134	Effect of endurance exercise training on Ca²⁺â€“calmodulinâ€dependent protein kinase II expression and signalling in skeletal muscle of humans. Journal of Physiology, 2007, 583, 785-795.	2.9	69
135	Pharmacological but not physiological GDF15 suppresses feeding and the motivation to exercise. Nature Communications, 2021, 12, 1041.	12.8	69
136	Effect of creatine supplementation on creatine and glycogen content in rat skeletal muscle. Acta Physiologica Scandinavica, 2001, 171, 169-176.	2.2	68
137	Acute mTOR inhibition induces insulin resistance and alters substrate utilization inÂvivo. Molecular Metabolism, 2014, 3, 630-641.	6.5	68
138	AMPKÎ± is critical for enhancing skeletal muscle fatty acid utilization duringin vivoexercise in mice. FASEB Journal, 2015, 29, 1725-1738.	0.5	68
139	AMPâ€activated protein kinase in contraction regulation of skeletal muscle metabolism: necessary and/or sufficient?. Acta Physiologica, 2009, 196, 155-174.	3.8	67
140	LKB1 Regulates Lipid Oxidation During Exercise Independently of AMPK. Diabetes, 2013, 62, 1490-1499.	0.6	66
141	Regulation of glycogen synthase in skeletal muscle during exercise. Acta Physiologica Scandinavica, 2003, 178, 309-319.	2.2	65
142	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
143	Myosin heavy chain composition of single fibres from m. biceps brachii of male body builders. Acta Physiologica Scandinavica, 1990, 140, 175-180.	2.2	63
144	Role of liver nerves and adrenal medulla in glucose turnover of running rats. Journal of Applied Physiology, 1985, 59, 1640-1646.	2.5	62

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145	Glucose uptake is increased in trained vs. untrained muscle during heavy exercise. Journal of Applied Physiology, 2000, 89, 1151-1158.	2.5	62
146	Higher intramuscular triacylglycerol in women does not impair insulin sensitivity and proximal insulin signaling. Journal of Applied Physiology, 2009, 107, 824-831.	2.5	62
147	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
148	Endurance Training Per Se Increases Metabolic Health in Young, Moderately Overweight Men. Obesity, 2012, 20, 2202-2212.	3.0	61
149	Fat utilization during exercise: adaptation to a fat-rich diet increases utilization of plasma fatty acids and very low density lipoprotein-triacylglycerol in humans. Journal of Physiology, 2001, 537, 1009-1020.	2.9	60
150	Adrenal medullary control of muscular and hepatic glycogenolysis and of pancreatic hormonal secretion in exercising rats. Acta Physiologica Scandinavica, 1980, 108, 235-242.	2.2	59
151	Skeletal muscle glucose uptake during dynamic exercise in humans: role of muscle mass. American Journal of Physiology - Endocrinology and Metabolism, 1988, 254, E555-E561.	3.5	59
152	Contraction-stimulated muscle glucose transport and GLUT-4 surface content are dependent on glycogen content. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E1103-E1110.	3.5	58
153	Insulin signalling: effects of prior exercise. Acta Physiologica Scandinavica, 2003, 178, 321-328.	2.2	58
154	Exerciseâ€induced TBC1D1 Ser237 phosphorylation and 14â€3â€3 protein binding capacity in human skeletal muscle. Journal of Physiology, 2010, 588, 4539-4548.	2.9	58
155	Rac1 â€“ a novel regulator of contractionâ€stimulated glucose uptake in skeletal muscle. Experimental Physiology, 2014, 99, 1574-1580.	2.0	58
156	Stretchâ€stimulated glucose transport in skeletal muscle is regulated by Rac1. Journal of Physiology, 2015, 593, 645-656.	2.9	58
157	Exercise-induced molecular mechanisms promoting glycogen supercompensation in human skeletal muscle. Molecular Metabolism, 2018, 16, 24-34.	6.5	58
158	Mechanism linking glycogen concentration and glycogenolytic rate in perfused contracting rat skeletal muscle. Biochemical Journal, 1992, 284, 777-780.	3.7	57
159	Important Role of Insulin and Flow in Stimulating Glucose Uptake in Contracting Skeletal Muscle. Diabetes, 1995, 44, 210-215.	0.6	57
160	Multiplexed Temporal Quantification of the Exercise-regulated Plasma Peptidome. Molecular and Cellular Proteomics, 2017, 16, 2055-2068.	3.8	56
161	Is there a medial nucleus of the trapezoid body in humans?. American Journal of Anatomy, 1983, 168, 157-166.	1.0	55
162	Vasopressin and angiotensin II stimulate oxygen uptake in the perfused rat hindlimb. Life Sciences, 1988, 43, 1747-1754.	4.3	55

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163	Exercise metabolism in human skeletal muscle exposed to prior eccentric exercise. Journal of Physiology, 1998, 509, 305-313.	2.9	55
164	Phosphoproteomics reveals conserved exerciseâ€stimulated signaling and AMPK regulation of storeâ€operated calcium entry. EMBO Journal, 2019, 38, e102578.	7.8	54
165	Skeletal muscle eEF2 and 4EBP1 phosphorylation during endurance exercise is dependent on intensity and muscle fiber type. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R326-R333.	1.8	53
166	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
167	Prolonged submaximal eccentric exercise is associated with increased levels of plasma IL-6. American Journal of Physiology - Endocrinology and Metabolism, 1997, 273, E85-E91.	3.5	52
168	Housing temperature influences exercise training adaptations in mice. Nature Communications, 2020, 11, 1560.	12.8	52
169	Metabolic Responses to Exercise: Effects of endurance training and implications for diabetes. Diabetes Care, 1992, 15, 1767-1776.	8.6	51
170	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
171	Sympathetic control of metabolic and hormonal responses to exercise in rats. Acta Physiologica Scandinavica, 1978, 102, 441-449.	2.2	50
172	Glucose transport and transporters in muscle giant vesicles: differential effects of insulin and contractions. American Journal of Physiology - Endocrinology and Metabolism, 1993, 264, E270-E278.	3.5	50
173	Lactate and H+ uptake in inactive muscles during intense exercise in man.. Journal of Physiology, 1995, 488, 219-229.	2.9	50
174	Regulatory mechanisms of skeletal muscle protein turnover during exercise. Journal of Applied Physiology, 2009, 106, 1702-1711.	2.5	50
175	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
176	Mechanisms Preserving Insulin Action during High Dietary Fat Intake. Cell Metabolism, 2019, 29, 50-63.e4.	16.2	50
177	Eccentric muscle damage transiently decreases rat skeletal muscle GLUT-4 protein. Journal of Applied Physiology, 1995, 79, 1338-1345.	2.5	49
178	Differential regulation of MAP kinase by contraction and insulin in skeletal muscle: metabolic implications. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E724-E732.	3.5	48
179	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
180	Carbohydrate supercompensation and muscle glycogen utilization during exhaustive running in highly trained athletes. European Journal of Applied Physiology and Occupational Physiology, 1990, 61, 467-472.	1.2	47

#	Article	IF	Citations
181	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
182	Mechanisms involved in follistatinâ€induced hypertrophy and increased insulin action in skeletal muscle. Journal of Cachexia, Sarcopenia and Muscle, 2019, 10, 1241-1257.	7.3	47
183	Hypoxia and contractions do not utilize the same signaling mechanism in stimulating skeletal muscle glucose transport. Biochimica Et Biophysica Acta - General Subjects, 1998, 1380, 396-404.	2.4	46
184	Sarcolemmal glucose transport and GLUT-4 translocation during exercise are diminished by endurance training. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E89-E95.	3.5	46
185	Opposite Regulation of Insulin Sensitivity by Dietary Lipid Versus Carbohydrate Excess. Diabetes, 2017, 66, 2583-2595.	0.6	46
186	Serum sex hormones and endurance performance after a lacto-ovo vegetarian and a mixed diet. Medicine and Science in Sports and Exercise, 1992, 24, 1290???1297.	0.4	44
187	Exercise signalling to glucose transport in skeletal muscle. Proceedings of the Nutrition Society, 2004, 63, 211-216.	1.0	44
188	mTORC2 and AMPK differentially regulate muscle triglyceride content via Perilipin 3. Molecular Metabolism, 2016, 5, 646-655.	6.5	44
189	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
190	Personalized phosphoproteomics identifies functional signaling. Nature Biotechnology, 2022, 40, 576-584.	17.5	44
191	Na+,K+-ATPase concentration in rodent and human heart and skeletal muscle: apparent relation to muscle performance. Cardiovascular Research, 1988, 22, 95-100.	3.8	43
192	Effect of diet and plasma fatty acid composition on immune status in elderly men. American Journal of Clinical Nutrition, 1994, 59, 572-577.	4.7	43
193	Mammalian target of rapamycin complex 2 regulates muscle glucose uptake during exercise in mice. Journal of Physiology, 2017, 595, 4845-4855.	2.9	43
194	Multiple signalling pathways redundantly control glucose transporter GLUT4 gene transcription in skeletal muscle. Journal of Physiology, 2009, 587, 4319-4327.	2.9	42
195	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
196	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
197	Current advances in our understanding of exercise as medicine in metabolic disease. Current Opinion in Physiology, 2019, 12, 12-19.	1.8	41
198	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

#	Article	IF	Citations
199	Exercise-induced increase in glucose transport, GLUT-4, and VAMP-2 in plasma membrane from human muscle. American Journal of Physiology - Endocrinology and Metabolism, 1996, 270, E197-E201.	3.5	40
200	Creatine Supplementation: Exploring the Role of the Creatine Kinase/Phosphocreatine System in Human Muscle. Applied Physiology, Nutrition, and Metabolism, 2001, 26, S79-S102.	1.7	40
201	Increased atypical PKC activity in endurance-trained human skeletal muscle. Biochemical and Biophysical Research Communications, 2003, 312, 1147-1153.	2.1	40
202	Fiber type-specific muscle glycogen sparing due to carbohydrate intake before and during exercise. Journal of Applied Physiology, 2007, 102, 183-188.	2.5	40
203	Cafeteria diet-induced insulin resistance is not associated with decreased insulin signaling or AMPK activity and is alleviated by physical training in rats. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E215-E224.	3.5	40
204	5â€²â€AMP activated protein kinase Î±₂ controls substrate metabolism during postâ€exercise recovery via regulation of pyruvate dehydrogenase kinaseÂ4. Journal of Physiology, 2015, 593, 4765-4780.	2.9	39
205	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
206	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
207	Insulin signaling in human skeletal muscle: time course and effect of exercise. Diabetes, 1997, 46, 1775-1781.	0.6	38
208	Effect of arm-cranking on leg blood flow and noradrenaline spillover during leg exercise in man. Acta Physiologica Scandinavica, 1992, 144, 9-14.	2.2	37
209	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
210	Biochemical and functional characterization of the GLUT5 fructose transporter in rat skeletal muscle. Biochemical Journal, 1998, 336, 361-366.	3.7	36
211	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
212	Nearâ€normalization of glycaemic control with glucagonâ€like peptideâ€1 receptor agonist treatment combined with exercise in patients with type 2 diabetes. Diabetes, Obesity and Metabolism, 2017, 19, 172-180.	4.4	36
213	The effect of caffeine on glucose kinetics in humans - influence of adrenaline. Journal of Physiology, 2005, 569, 347-355.	2.9	35
214	Muscle metabolism during graded quadriceps exercise in man. Journal of Physiology, 2007, 581, 1247-1258.	2.9	35
215	Insulinâ€induced membrane permeability to glucose in human muscles at rest and following exercise. Journal of Physiology, 2020, 598, 303-315.	2.9	35
216	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

#	Article	IF	Citations
217	Effect of endurance training on ammonia and amino acid metabolism in humans. Medicine and Science in Sports and Exercise, 1997, 29, 646-653.	0.4	34
218	Glucoseâ€“fatty acid cycle operates in humans at the levels of both whole body and skeletal muscle during low and high physiological plasma insulin concentrations. European Journal of Endocrinology, 1994, 130, 70-79.	3.7	33
219	Decreased insulin action in skeletal muscle from patients with McArdle's disease. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E1267-E1275.	3.5	33
220	Regulation of plasma long-chain fatty acid oxidation in relation to uptake in human skeletal muscle during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E696-E705.	3.5	33
221	Î±-Adrenergic receptors in rat skeletal muscle. Biochemical and Biophysical Research Communications, 1986, 136, 1071-1077.	2.1	32
222	Evaluation of intramyocellular lipid breakdown during exercise by biochemical assay, NMR spectroscopy, and Oil Red O staining. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E428-E434.	3.5	32
223	Adiponectin concentration is associated with muscle insulin sensitivity, AMPK phosphorylation, and ceramide content in skeletal muscles of men but not women. Journal of Applied Physiology, 2013, 114, 592-601.	2.5	32
224	Effects of contraction on localization of GLUT4 and v-SNARE isoforms in rat skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 297, R1228-R1237.	1.8	31
225	Regulation of exerciseâ€induced lipid metabolism in skeletal muscle. Experimental Physiology, 2014, 99, 1586-1592.	2.0	31
226	Growth Factor-Dependent and -Independent Activation of mTORC2. Trends in Endocrinology and Metabolism, 2020, 31, 13-24.	7.1	31
227	Interactions between insulin and exercise. Biochemical Journal, 2021, 478, 3827-3846.	3.7	31
228	Role of epinephrine for muscular glycogenolysis and pancreatic hormonal secretion in running rats. American Journal of Physiology - Endocrinology and Metabolism, 1981, 240, E526-E532.	3.5	30
229	Decreased insulin action on muscle glucose transport after eccentric contractions in rats. Journal of Applied Physiology, 1996, 81, 1924-1928.	2.5	30
230	Progressive increase in glucose transport and GLUT-4 in human sarcolemmal vesicles during moderate exercise. American Journal of Physiology - Endocrinology and Metabolism, 1997, 272, E385-E389.	3.5	30
231	Exercise in rats does not alter hypothalamic AMP-activated protein kinase activity. Biochemical and Biophysical Research Communications, 2005, 329, 719-725.	2.1	30
232	Regulation and function of Ca2+-calmodulin-dependent protein kinase II of fast-twitch rat skeletal muscle. Journal of Physiology, 2007, 580, 993-1005.	2.9	30
233	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
234	No effect of glycogen level on glycogen metabolism during high intensity exercise. Medicine and Science in Sports and Exercise, 1995, 27, 1278???1283.	0.4	29

#	Article	IF	Citations
235	No limiting role for glycogenin in determining maximal attainable glycogen levels in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2000, 278, E398-E404.	3.5	29
236	The Importance of Fatty Acids as Nutrients during Post-Exercise Recovery. Nutrients, 2020, 12, 280.	4.1	29
237	Prior exercise in humans redistributes intramuscular GLUT4 and enhances insulin-stimulated sarcolemmal and endosomal GLUT4 translocation. Molecular Metabolism, 2020, 39, 100998.	6.5	29
238	GLUT4-containing vesicles are released from membranes by phospholipase D cleavage of a GPI anchor. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E374-E382.	3.5	28
239	FAT/CD36 is localized in sarcolemma and in vesicle-like structures in subsarcolemma regions but not in mitochondria. Journal of Lipid Research, 2010, 51, 1504-1512.	4.2	28
240	Leukemia inhibitory factor increases glucose uptake in mouse skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E142-E153.	3.5	28
241	AMPK and Insulin Action - Responses to Ageing and High Fat Diet. PLoS ONE, 2013, 8, e62338.	2.5	28
242	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
243	Eccentric contractions decrease glucose transporter transcription rate, mRNA, and protein in skeletal muscle. American Journal of Physiology - Cell Physiology, 1997, 272, C1734-C1738.	4.6	27
244	Muscle fiber characteristics in postmenopausal women with normal or impaired glucose tolerance. Diabetes Care, 1999, 22, 1330-1338.	8.6	27
245	New creatine transporter assay and identification of distinct creatine transporter isoforms in muscle. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E390-E401.	3.5	27
246	Impact of Genetic Versus Environmental Factors on the Control of Muscle Glycogen Synthase Activation in Twins. Diabetes, 2005, 54, 1289-1296.	0.6	27
247	Role of AMPK in skeletal muscle gene adaptation in relation to exercise. Applied Physiology, Nutrition and Metabolism, 2007, 32, 904-911.	1.9	27
248	Effect of eccentric exercise on natural killer cell activity. Journal of Applied Physiology, 1995, 78, 1442-1446.	2.5	26
249	Training and natural immunity: effects of diets rich in fat or carbohydrate. European Journal of Applied Physiology, 2000, 82, 98-102.	2.5	26
250	Na,K-ATPase Activity in Mouse Muscle is Regulated by AMPK and PGC-1Î±. Journal of Membrane Biology, 2011, 242, 1-10.	2.1	26
251	Globular adiponectin controls insulin-mediated vasoreactivity in muscle through AMPKÎ±2. Vascular Pharmacology, 2016, 78, 24-35.	2.1	26
252	Increased muscle glucose uptake after exercise. No need for insulin during exercise. Diabetes, 1985, 34, 1041-1048.	0.6	26

#	Article	IF	Citations
253	GDF15 in Appetite and Exercise: Essential Player or Coincidental Bystander?. Endocrinology, 2022, 163, .	2.8	26
254	Muscle glycogen synthesis in recovery from intense exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 1997, 273, E416-E424.	3.5	25
255	Impaired muscle glycogen resynthesis after a marathon is not caused by decreased muscle GLUT-4 content. Journal of Applied Physiology, 1997, 83, 1482-1485.	2.5	25
256	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
257	Effect of bariatric surgery on plasma GDF15 in humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E615-E621.	3.5	25
258	Pro- and macroglycogenolysis in contracting rat skeletal muscle. Acta Physiologica Scandinavica, 2000, 169, 291-296.	2.2	24
259	Increases in glycogenin and glycogenin mRNA accompany glycogen resynthesis in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E508-E514.	3.5	24
260	AMP kinase expression and activity in human skeletal muscle: effects of immobilization, retraining, and creatine supplementation. Journal of Applied Physiology, 2005, 98, 1228-1233.	2.5	24
261	Significance of Glucagon for Insulin Secretion and Hepatic Glycogenolysis during Exercise in Rats. Hormone and Metabolic Research, 1981, 13, 323-326.	1.5	23
262	Growth hormone induces muscle fibre type transformation in growth hormoneâ€deficient rats. Acta Physiologica Scandinavica, 1998, 164, 119-126.	2.2	23
263	Absence of humoral mediated 5â€²AMPâ€activated protein kinase activation in human skeletal muscle and adipose tissue during exercise. Journal of Physiology, 2007, 585, 897-909.	2.9	23
264	Can Exercise Mimetics Substitute for Exercise?. Cell Metabolism, 2008, 8, 96-98.	16.2	23
265	Dietary Fuels in Athletic Performance. Annual Review of Nutrition, 2019, 39, 45-73.	10.1	23
266	Glucometabolic consequences of acute and prolonged inhibition of fatty acid oxidation. Journal of Lipid Research, 2020, 61, 10-19.	4.2	23
267	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
268	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
269	Neutralization of Glucagon by Antiserum as a Tool in Glucagon Physiology. Journal of Clinical Investigation, 1978, 62, 182-190.	8.2	23
270	Significance of Insulin for Glucose Metabolism in Skeletal Muscle During Contractions. Diabetes, 1996, 45, S99-S104.	0.6	22

#	Article	IF	Citations
271	Interstitial glycerol concentrations in human skeletal muscle and adipose tissue during graded exercise. Acta Physiologica Scandinavica, 2004, 180, 367-377.	2.2	22
272	Randomized and double-blinded pilot clinical study of the safety and anti-diabetic efficacy of the Rauvolfia-Citrus tea, as used in Nigerian Traditional Medicine. Journal of Ethnopharmacology, 2011, 133, 402-411.	4.1	22
273	EMG-Normalised Kinase Activation during Exercise Is Higher in Human Gastrocnemius Compared to Soleus Muscle. PLoS ONE, 2012, 7, e31054.	2.5	22
274	Cancer causes metabolic perturbations associated with reduced insulin-stimulated glucose uptake in peripheral tissues and impaired muscle microvascular perfusion. Metabolism: Clinical and Experimental, 2020, 105, 154169.	3.4	22
275	GLUT5 Expression and Fructose Transport in Human Skeletal Muscle. Advances in Experimental Medicine and Biology, 1998, 441, 35-45.	1.6	22
276	Increased hepatic glycogen synthetase and decreased phosphorylase in trained rats. Acta Physiologica Scandinavica, 1979, 107, 269-272.	2.2	21
277	Differences in glycaemia, hormonal response and energy expenditure after a meal rich in monoâ€•and disaccharides compared to a meal rich in polysaccharides in physically fit and sedentary subjects. Clinical Physiology, 1994, 14, 267-280.	0.7	21
278	Effect of 6 months of GH treatment on myosin heavy chain composition in GH-deficient patients. European Journal of Endocrinology, 1999, 141, 342-349.	3.7	21
279	Signalling to glucose transport in skeletal muscle during exercise. Acta Physiologica Scandinavica, 2003, 178, 329-335.	2.2	21
280	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
281	Protein kinase CÎ± activity is important for contraction-induced FXYD1 phosphorylation in skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1808-R1814.	1.8	21
282	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
283	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
284	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
285	Prior exercise increases basal and insulin-induced p38 mitogen-activated protein kinase phosphorylation in human skeletal muscle. Journal of Applied Physiology, 2003, 94, 2337-2341.	2.5	20
286	Glycogenin activity and mRNA expression in response to volitional exhaustion in human skeletal muscle. Journal of Applied Physiology, 2005, 99, 957-962.	2.5	20
287	Differential effects of glucagonâ€like peptideâ€1 on microvascular recruitment and glucose metabolism in shortâ€•and longâ€term insulin resistance. Journal of Physiology, 2015, 593, 2185-2198.	2.9	20
288	ADAMTS9 Regulates Skeletal Muscle Insulin Sensitivity Through Extracellular Matrix Alterations. Diabetes, 2019, 68, 502-514.	0.6	20

#	Article	IF	Citations
289	Important role of insulin and flow in stimulating glucose uptake in contracting skeletal muscle. Diabetes, 1995, 44, 210-215.	0.6	20
290	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
291	Glycogen concentration in human skeletal muscle: effect of prolonged insulin and glucose infusion. Scandinavian Journal of Medicine and Science in Sports, 1999, 9, 209-213.	2.9	19
292	Partial Disruption of Lipolysis Increases Postexercise Insulin Sensitivity in Skeletal Muscle Despite Accumulation of DAG. Diabetes, 2016, 65, 2932-2942.	0.6	19
293	Role of Adenosine in Regulation of Carbohydrate Metabolism in Contracting Muscle. Advances in Experimental Medicine and Biology, 1998, 441, 97-106.	1.6	19
294	Impaired left-ventricular function in insulin-dependent diabetic patients with increased urinary albumin excretion. Scandinavian Journal of Clinical and Laboratory Investigation, 1991, 51, 467-473.	1.2	18
295	Glucose utilization during exercise: influence of endurance training. Acta Physiologica Scandinavica, 1998, 162, 351-358.	2.2	18
296	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
297	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
298	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
299	Impaired aerobic work capacity in insulin dependent diabetics with increased urinary albumin excretion. BMJ: British Medical Journal, 1988, 296, 1352-1354.	2.3	17
300	Effect of vanadate on glucose transporter (GLUT4) intrinsic activity in skeletal muscle plasma membrane giant vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1282, 71-75.	2.6	17
301	Insulin action in growth hormone-deficient and age-matched control rats: effect of growth hormone treatment. Journal of Endocrinology, 1999, 160, 127-135.	2.6	17
302	Akt2 influences glycogen synthase activity in human skeletal muscle through regulation of NH₂-terminal (sites 2 + 2a) phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E631-E639.	3.5	17
303	Inhibition of muscle glycogen synthase activity and non-oxidative glucose disposal during hypoglycaemia in normal man. Diabetologia, 1996, 39, 226-234.	6.3	16
304	Partial restoration of dietary fat induced metabolic adaptations to training by 7 days of carbohydrate diet. Journal of Applied Physiology, 2002, 93, 1797-1805.	2.5	16
305	Diabetes, Insulin and Exercise. Sports Medicine, 1986, 3, 275-288.	6.5	15
306	Effects of glucose and insulin on development of impaired insulin action in muscle. American Journal of Physiology - Endocrinology and Metabolism, 1992, 262, E440-E446.	3.5	15

#	Article	IF	Citations
307	Decreased muscle GLUT-4 and contraction-induced glucose transport after eccentric contractions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1996, 271, R477-R482.	1.8	15
308	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
309	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
310	Clenbuterol exerts antidiabetic activity through metabolic reprogramming of skeletal muscle cells. Nature Communications, 2022, 13, 22.	12.8	15
311	Muscle and liver glycogen, protein, and triglyceride in the rat. European Journal of Applied Physiology and Occupational Physiology, 1984, 52, 346-350.	1.2	14
312	Perfused rat hindlimb is suitable for skeletal muscle glucose transport measurements. American Journal of Physiology - Endocrinology and Metabolism, 1998, 274, E184-E191.	3.5	14
313	PGC-1Î±: important for exercise performance?. Journal of Applied Physiology, 2008, 104, 1264-1265.	2.5	14
314	Differential aetiology and impact of phosphoinositide 3-kinase (PI3K) and Akt signalling in skeletal muscle on in vivo insulin action. Diabetologia, 2010, 53, 1998-2007.	6.3	14
315	Impaired plasma FFA oxidation imposed by extreme CHO deficiency in contracting rat skeletal muscle. Journal of Applied Physiology, 1994, 77, 517-525.	2.5	13
316	Effect of glucoseâ€6â€phosphate and pH on glucose transport in skeletal muscle plasma membrane giant vesicles. Acta Physiologica Scandinavica, 1994, 150, 227-233.	2.2	13
317	Rac1 in Muscle Is Dispensable for Improved Insulin Action After Exercise in Mice. Endocrinology, 2016, 157, 3009-3015.	2.8	13
318	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
319	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
320	Regulation of glycogen breakdown by glycogen level in contracting rat muscle. Acta Physiologica Scandinavica, 1999, 165, 307-314.	2.2	12
321	5â€²-AMP Activated Protein Kinase is Involved in the Regulation of Myocardial Î²-Oxidative Capacity in Mice. Frontiers in Physiology, 2012, 3, 33.	2.8	12
322	Nutritional optimization for female elite football playersâ€”topical review. Scandinavian Journal of Medicine and Science in Sports, 2022, 32, 81-104.	2.9	12
323	Protein kinase C activity in rat skeletal muscle Apparent relation to body weight and muscle growth. FEBS Letters, 1991, 289, 83-85.	2.8	11
324	Effect of blood flow on muscle lactate release studied in perfused rat hindlimb. American Journal of Physiology - Endocrinology and Metabolism, 1995, 269, E1044-E1051.	3.5	11

#	Article	IF	Citations
325	A possible role for AMP-activated protein kinase in exercise-induced glucose utilization: insights from humans and transgenic animals. Biochemical Society Transactions, 2003, 31, 186-190.	3.4	11
326	Low Birth Weight and Zygosity Status Is Associated With Defective Muscle Glycogen and Glycogen Synthase Regulation in Elderly Twins. Diabetes, 2007, 56, 2710-2714.	0.6	11
327	Dissociation between Skeletal Muscle Inhibitor-Î^ºB Kinase/Nuclear Factor-Î^ºB Pathway Activity and Insulin Sensitivity in Nondiabetic Twins. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 414-421.	3.6	11
328	Insulin sensitivity is independent of lipid binding protein trafficking at the plasma membrane in human skeletal muscle: effect of a 3-day, high-fat diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1136-R1145.	1.8	11
329	Is contractionâ€stimulated glucose transport feedforward regulated by Ca²⁺?. Experimental Physiology, 2014, 99, 1562-1568.	2.0	11
330	Regulation of Muscle Glucose Transport during Exercise. International Journal of Sport Nutrition and Exercise Metabolism, 2001, 11, S71-S77.	2.1	10
331	Training Effects on Muscle Glucose Transport during Exercise. Advances in Experimental Medicine and Biology, 1998, 441, 107-116.	1.6	10
332	Biphasic response of plasma endothelinâ€1 concentration to exhausting submaximal exercise in man. Clinical Physiology, 1994, 14, 379-384.	0.7	9
333	Ammonia uptake in inactive muscles during exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 1996, 270, E101-E106.	3.5	9
334	The balancing act between the cellular processes of protein synthesis and breakdown: exercise as a model to understand the molecular mechanisms regulating muscle mass. Journal of Applied Physiology, 2009, 106, 1365-1366.	2.5	9
335	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
336	The p21â€activated kinase 2 (PAK2), but not PAK1, regulates contractionâ€stimulated skeletal muscle glucose transport. Physiological Reports, 2020, 8, e14460.	1.7	9
337	Adenosine exerts a glycogen-sparing action in contracting rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 1997, 272, E762-E768.	3.5	8
338	Involvement of atypical protein kinase C in the regulation of cardiac glucose and long-chain fatty acid uptake. Frontiers in Physiology, 2012, 3, 361.	2.8	8
339	Regulation of glycogen synthase in muscle and its role in Type 2 diabetes. Diabetes Management, 2013, 3, 81-90.	0.5	8
340	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
341	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
342	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

#	Article	IF	Citations
343	Effect of acute hyperglycemia on glucose metabolism in skeletal muscles in IDDM patients. Diabetes, 1992, 41, 174-182.	0.6	5
344	Lack of influence of glucagon on glucose homeostasis after prolonged exercise in rats. Pflugers Archiv European Journal of Physiology, 1977, 369, 21-25.	2.8	4
345	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
346	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
347	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
348	Timing of post-exercise protein intake is important for muscle hypertrophy with resistance training in elderly humans. Scandinavian Journal of Medicine and Science in Sports, 2002, 12, 60-60.	2.9	3
349	Exercise physiology: From performance studies to muscle physiology and cardiovascular adaptations. Journal of Applied Physiology, 2014, 117, 943-944.	2.5	2
350	INCREASED MUSCLE GLUCOSE UPTAKE DURING CONTRACTIONS. Medicine and Science in Sports and Exercise, 1984, 16, 173.	0.4	1
351	Glucose phosphorylation is/is not a significant barrier to muscle glucose uptake by the working muscle. Journal of Applied Physiology, 2006, 101, 1809-1809.	2.5	1
352	Newton's force as countermeasure for disuse atrophy. Journal of Applied Physiology, 2009, 107, 6-7.	2.5	1
353	When less is more: a simple Western blotting amendment allowing data acquisition on human single fibers. Journal of Applied Physiology, 2011, 110, 583-584.	2.5	1
354	NOX2 is a major ROS source in exercising muscle regulating glucose uptake. Free Radical Biology and Medicine, 2018, 120, S30.	2.9	1
355	INFLUENCE OF THE SYMPATHOâ€ADRENAL SYSTEM ON MUSCLE METABOLISM DURING EXERCISE. Clinical Physiology, 1981, 1, 54-59.	0.7	0
356	THE INFLUENCE OF TRAINING ON GLUCOSE TURNOVER AND HORMONAL RESPONSES IN INSULIN-INDUCED HYPOGLYCEMIA. Medicine and Science in Sports and Exercise, 1982, 14, 150.	0.4	0
357	GLUCOSE TRANSPORT IN SKELETAL MUSCLE. Medicine and Science in Sports and Exercise, 1985, 17, 241.	0.4	0
358	Interaction of Fuels in Muscle Metabolism during Exercise. Medicine and Sport Science, 1992, 37, 252-261.	1.4	0
359	Novel regulatory mechanisms in muscle metabolism during exercise. Experimental Physiology, 2014, 99, 1559-1561.	2.0	0
360	Reply from Lykke Sylow, Lisbeth L. V. MÃ¸ller, Maximilian Kleinert, Erik A. Richter and Thomas E. Jensen. Journal of Physiology, 2015, 593, 2239-2240.	2.9	0

#	Article	IF	Citations
361	Exerciseâ€induced upâ€regulation of skeletal muscle Nampt protein is independent of Î±2 AMPâ€activated protein kinase. FASEB Journal, 2013, 27, lb806.	0.5	0
362	Does Acute Exercise Increase Insulinâ€Stimulated Skeletal Muscle Glucose Uptake, Blood Flow And Insulin Signalling In Response To A Meal?. FASEB Journal, 2020, 34, 1-1.	0.5	0