

# Erik A Richter

## List of Publications by Citations

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359  
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22,371  
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83  
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131  
g-index

385  
ext. papers

24,571  
ext. citations

5.7  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
359	Exercise, GLUT4, and skeletal muscle glucose uptake. <i>Physiological Reviews</i> , <b>2013</b> , 93, 993-1017	47.9	654
358	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
357	The AMP-activated protein kinase alpha2 catalytic subunit controls whole-body insulin sensitivity. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 91-8	15.9	396
356	Timing of postexercise protein intake is important for muscle hypertrophy with resistance training in elderly humans. <i>Journal of Physiology</i> , <b>2001</b> , 535, 301-11	3.9	374
355	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
354	Skeletal muscle lipid metabolism in exercise and insulin resistance. <i>Physiological Reviews</i> , <b>2006</b> , 86, 205-43	47.9	343
353	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
352	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
351	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
350	Effect of exercise on insulin action in human skeletal muscle. <i>Journal of Applied Physiology</i> , <b>1989</b> , 66, 876-85	3.7	291
349	Insulin signaling and insulin sensitivity after exercise in human skeletal muscle. <i>Diabetes</i> , <b>2000</b> , 49, 325-30	30.9	290
348	Extracellular Vesicles Provide a Means for Tissue Crosstalk during Exercise. <i>Cell Metabolism</i> , <b>2018</b> , 27, 237-251.e4	24.6	257
347	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
346	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , <b>2015</b> , 22, 922-35	24.6	233
345	Effects of alpha-AMPK knockout on exercise-induced gene activation in mouse skeletal muscle. <i>FASEB Journal</i> , <b>2005</b> , 19, 1146-8	0.9	230
344	Glycogen-dependent effects of 5-aminoimidazole-4-carboxamide (AICA)-riboside on AMP-activated protein kinase and glycogen synthase activities in rat skeletal muscle. <i>Diabetes</i> , <b>2002</b> , 51, 284-92	0.9	223
343	Skeletal muscle glucose uptake during exercise: how is it regulated?. <i>Physiology</i> , <b>2005</b> , 20, 260-70	9.8	217

342	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
341	AMPK-mediated AS160 phosphorylation in skeletal muscle is dependent on AMPK catalytic and regulatory subunits. <i>Diabetes</i> , <b>2006</b> , 55, 2051-8	0.9	215
340	Exercise-stimulated glucose uptake - regulation and implications for glycaemic control. <i>Nature Reviews Endocrinology</i> , <b>2017</b> , 13, 133-148	15.2	201
339	The alpha2-5AMP-activated protein kinase is a site 2 glycogen synthase kinase in skeletal muscle and is responsive to glucose loading. <i>Diabetes</i> , <b>2004</b> , 53, 3074-81	0.9	197
338	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
337	Muscle contractions induce interleukin-6 mRNA production in rat skeletal muscles. <i>Journal of Physiology</i> , <b>2000</b> , 528 Pt 1, 157-63	3.9	185
336	Glucose, exercise and insulin: emerging concepts. <i>Journal of Physiology</i> , <b>2001</b> , 535, 313-22	3.9	173
335	Gender differences in substrate utilization during submaximal exercise in endurance-trained subjects. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2002</b> , 282, E435-47	6	172
334	Insulin signaling in human skeletal muscle: time course and effect of exercise. <i>Diabetes</i> , <b>1997</b> , 46, 1775-81	3.9	161
333	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
332	Role of AMPK in skeletal muscle metabolic regulation and adaptation in relation to exercise. <i>Journal of Physiology</i> , <b>2006</b> , 574, 17-31	3.9	160
331	Myocellular triacylglycerol breakdown in females but not in males during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2002</b> , 282, E634-42	6	160
330	Ca <sup>2+</sup> -calmodulin-dependent protein kinase expression and signalling in skeletal muscle during exercise. <i>Journal of Physiology</i> , <b>2006</b> , 574, 889-903	3.9	159
329	Regulation of glucose and glycogen metabolism during and after exercise. <i>Journal of Physiology</i> , <b>2012</b> , 590, 1069-76	3.9	156
328	Xanthine oxidase in human skeletal muscle following eccentric exercise: a role in inflammation. <i>Journal of Physiology</i> , <b>1997</b> , 498 ( Pt 1), 239-48	3.9	155
327	Types of carbohydrate in an ordinary diet affect insulin action and muscle substrates in humans. <i>American Journal of Clinical Nutrition</i> , <b>1996</b> , 63, 47-53	7	149
326	Dissociation of AMP-activated protein kinase activation and glucose transport in contracting slow-twitch muscle. <i>Diabetes</i> , <b>2000</b> , 49, 1281-7	0.9	145
325	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

324	Effect of muscle acidity on muscle metabolism and fatigue during intense exercise in man. <i>Journal of Physiology</i> , <b>1996</b> , 495 ( Pt 2), 587-96	3.9	143
323	Role of AMPKalpha2 in basal, training-, and AICAR-induced GLUT4, hexokinase II, and mitochondrial protein expression in mouse muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E331-9	6	140
322	The effect of graded exercise on IL-6 release and glucose uptake in human skeletal muscle. <i>Journal of Physiology</i> , <b>2003</b> , 546, 299-305	3.9	139
321	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
320	Effects of insulin and exercise on muscle lipoprotein lipase activity in man and its relation to insulin action. <i>Journal of Clinical Investigation</i> , <b>1989</b> , 84, 1124-9	15.9	134
319	Caffeine-induced impairment of insulin action but not insulin signaling in human skeletal muscle is reduced by exercise. <i>Diabetes</i> , <b>2002</b> , 51, 583-90	0.9	133
318	Utilization of skeletal muscle triacylglycerol during postexercise recovery in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1998</b> , 275, E332-7	6	132
317	Rac1 signaling is required for insulin-stimulated glucose uptake and is dysregulated in insulin-resistant murine and human skeletal muscle. <i>Diabetes</i> , <b>2013</b> , 62, 1865-75	0.9	128
316	. <i>Journal of Physiology</i> , <b>2001</b> , 537, 1009-1020	3.9	127
315	Higher skeletal muscle alpha2AMPK activation and lower energy charge and fat oxidation in men than in women during submaximal exercise. <i>Journal of Physiology</i> , <b>2006</b> , 574, 125-38	3.9	125
314	Adenosine receptors mediate synergistic stimulation of glucose uptake and transport by insulin and by contractions in rat skeletal muscle. <i>Journal of Clinical Investigation</i> , <b>1994</b> , 93, 974-81	15.9	125
313	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
312	Malonyl-CoA and carnitine in regulation of fat oxidation in human skeletal muscle during exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2005</b> , 288, E133-42	6	123
311	5QAMP-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
310	Membrane associated fatty acid binding protein (FABPpm) in human skeletal muscle is increased by endurance training. <i>Biochemical and Biophysical Research Communications</i> , <b>1997</b> , 231, 463-5	3.4	117
309	5QAMP-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
308	Fiber type-specific expression of GLUT4 in human skeletal muscle: influence of exercise training. <i>Diabetes</i> , <b>2000</b> , 49, 1092-5	0.9	116
307	Catecholamines and exercise. <i>Diabetes</i> , <b>1979</b> , 28 Suppl 1, 58-62	0.9	116

306	Interaction of training and diet on metabolism and endurance during exercise in man. <i>Journal of Physiology</i> , <b>1996</b> , 492 ( Pt 1), 293-306	3.9	112
305	Effect of oral creatine supplementation on human muscle GLUT4 protein content after immobilization. <i>Diabetes</i> , <b>2001</b> , 50, 18-23	0.9	111
304	AMP deamination and purine exchange in human skeletal muscle during and after intense exercise. <i>Journal of Physiology</i> , <b>1999</b> , 520 Pt 3, 909-20	3.9	111
303	Altered skeletal muscle fiber composition and size precede whole-body insulin resistance in young men with low birth weight. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2007</b> , 92, 1530-4	5.6	109
302	Increased phosphorylation of skeletal muscle glycogen synthase at NH2-terminal sites during physiological hyperinsulinemia in type 2 diabetes. <i>Diabetes</i> , <b>2003</b> , 52, 1393-402	0.9	109
301	Rac1 signalling towards GLUT4/glucose uptake in skeletal muscle. <i>Cellular Signalling</i> , <b>2011</b> , 23, 1546-54	4.9	106
300	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
299	Caffeine-induced Ca(2+) release increases AMPK-dependent glucose uptake in rodent soleus muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 293, E286-92	6	104
298	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
297	Exercise diminishes the activity of acetyl-CoA carboxylase in human muscle. <i>Diabetes</i> , <b>2000</b> , 49, 1295-300	0.9	103
296	Adipose triglyceride lipase in human skeletal muscle is upregulated by exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2009</b> , 296, E445-53	6	102
295	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
294	Exercise in the fasted state facilitates fibre type-specific intramyocellular lipid breakdown and stimulates glycogen resynthesis in humans. <i>Journal of Physiology</i> , <b>2005</b> , 564, 649-60	3.9	99
293	Oxidation of urate in human skeletal muscle during exercise. <i>Free Radical Biology and Medicine</i> , <b>1997</b> , 22, 169-74	7.8	98
292	Effect of training in the fasted state on metabolic responses during exercise with carbohydrate intake. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1045-55	3.7	97
291	AS160 phosphorylation is associated with activation of alpha2beta2gamma1- but not alpha2beta2gamma3-AMPK trimeric complex in skeletal muscle during exercise in humans. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E715-22	6	97
290	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
289	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

288	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
287	Perivascular adipose tissue control of insulin-induced vasoreactivity in muscle is impaired in db/db mice. <i>Diabetes</i> , <b>2013</b> , 62, 590-8	0.9	93
286	Contraction intensity and feeding affect collagen and myofibrillar protein synthesis rates differently in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 298, E257-69	6	92
285	Potential role of TBC1D4 in enhanced post-exercise insulin action in human skeletal muscle. <i>Diabetologia</i> , <b>2009</b> , 52, 891-900	10.3	92
284	Effect of the antilipolytic nicotinic acid analogue acipimox on whole-body and skeletal muscle glucose metabolism in patients with non-insulin-dependent diabetes mellitus. <i>Journal of Clinical Investigation</i> , <b>1991</b> , 88, 1282-90	15.9	92
283	Diabetes and exercise. <i>American Journal of Medicine</i> , <b>1981</b> , 70, 201-9	2.4	91
282	Influence of active muscle mass on glucose homeostasis during exercise in humans. <i>Journal of Applied Physiology</i> , <b>1991</b> , 71, 552-7	3.7	90
281	Seven days of bed rest decrease insulin action on glucose uptake in leg and whole body. <i>Journal of Applied Physiology</i> , <b>1991</b> , 70, 1245-54	3.7	89
280	Contraction-associated translocation of protein kinase C in rat skeletal muscle. <i>FEBS Letters</i> , <b>1987</b> , 217, 232-6	3.8	89
279	Diminished hormonal responses to exercise in trained rats. <i>Journal of Applied Physiology</i> , <b>1977</b> , 43, 953-8	3.7	89
278	Enhanced muscle glucose metabolism after exercise in the rat: the two phases. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1984</b> , 246, E471-5	6	87
277	Eccentric exercise decreases glucose transporter GLUT4 protein in human skeletal muscle. <i>Journal of Physiology</i> , <b>1995</b> , 482 ( Pt 3), 705-12	3.9	86
276	Wortmannin inhibits both insulin- and contraction-stimulated glucose uptake and transport in rat skeletal muscle. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 1501-9	3.7	83
275	Glucose uptake and transport in contracting, perfused rat muscle with different pre-contraction glycogen concentrations. <i>Journal of Physiology</i> , <b>1990</b> , 427, 347-59	3.9	83
274	Glucose-induced insulin resistance of skeletal-muscle glucose transport and uptake. <i>Biochemical Journal</i> , <b>1988</b> , 252, 733-7	3.8	82
273	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
272	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
271	Exercise alleviates lipid-induced insulin resistance in human skeletal muscle-signaling interaction at the level of TBC1 domain family member 4. <i>Diabetes</i> , <b>2012</b> , 61, 2743-52	0.9	78

270	Crucial role for LKB1 to AMPKalpha2 axis in the regulation of CD36-mediated long-chain fatty acid uptake into cardiomyocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2009</b> , 1791, 212-9	5	77
269	Noradrenaline spillover during exercise in active versus resting skeletal muscle in man. <i>Acta Physiologica Scandinavica</i> , <b>1987</b> , 131, 507-15		77
268	Enhanced muscle glucose metabolism after exercise: modulation by local factors. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1984</b> , 246, E476-82	6	77
267	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
266	Regulation of hormone-sensitive lipase activity and Ser563 and Ser565 phosphorylation in human skeletal muscle during exercise. <i>Journal of Physiology</i> , <b>2004</b> , 560, 551-62	3.9	74
265	Muscle glycogen content affects insulin-stimulated glucose transport and protein kinase B activity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2000</b> , 279, E947-55	6	74
264	Increased muscle glucose uptake during contractions: no need for insulin. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>1984</b> , 247, E726-31	6	74
263	Sucrose nonfermenting AMPK-related kinase (SNARK) mediates contraction-stimulated glucose transport in mouse skeletal muscle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15541-6	11.5	73
262	Improved insulin sensitivity after exercise: focus on insulin signaling. <i>Obesity</i> , <b>2009</b> , 17 Suppl 3, S15-20	8	72
261	Overexpression of monocarboxylate transporter-1 (SLC16A1) in mouse pancreatic $\beta$ cells leads to relative hyperinsulinism during exercise. <i>Diabetes</i> , <b>2012</b> , 61, 1719-25	0.9	72
260	Training increases the concentration of [ <sup>3</sup> H]ouabain-binding sites in rat skeletal muscle. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1986</b> , 860, 708-12	3.8	72
259	Alpha and beta adrenergic effects on metabolism in contracting, perfused muscle. <i>Acta Physiologica Scandinavica</i> , <b>1982</b> , 116, 215-22		72
258	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
257	A Ca(2+)-calmodulin-eEF2K-eEF2 signalling cascade, but not AMPK, contributes to the suppression of skeletal muscle protein synthesis during contractions. <i>Journal of Physiology</i> , <b>2009</b> , 587, 1547-63	3.9	71
256	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
255	Exercise rapidly increases eukaryotic elongation factor 2 phosphorylation in skeletal muscle of men. <i>Journal of Physiology</i> , <b>2005</b> , 569, 223-8	3.9	71
254	Current understanding of increased insulin sensitivity after exercise - emerging candidates. <i>Acta Physiologica</i> , <b>2011</b> , 202, 323-35	5.6	70
253	Relationship between muscle fibre composition, glucose transporter protein 4 and exercise training: possible consequences in non-insulin-dependent diabetes mellitus. <i>Acta Physiologica Scandinavica</i> , <b>2001</b> , 171, 267-76		70

252	Effects of creatine supplementation and exercise training on fitness in men 55-75 yr old. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 818-28	3.7	69
251	Interleukin-6 release from human skeletal muscle during exercise: relation to AMPK activity. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 2273-7	3.7	69
250	Saturation kinetics of palmitate uptake in perfused skeletal muscle. <i>FEBS Letters</i> , <b>1991</b> , 279, 327-9	3.8	69
249	Exercise increases circulating GDF15 in humans. <i>Molecular Metabolism</i> , <b>2018</b> , 9, 187-191	8.8	68
248	Role of 5 $\alpha$ -AMP-activated protein kinase in glycogen synthase activity and glucose utilization: insights from patients with McArdle's disease. <i>Journal of Physiology</i> , <b>2002</b> , 541, 979-89	3.9	68
247	AMPK activity and isoform protein expression are similar in muscle of obese subjects with and without type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2004</b> , 286, E239-44	6.4	68
246	Regulation of glycogen synthase kinase-3 in human skeletal muscle: effects of food intake and bicycle exercise. <i>Diabetes</i> , <b>2001</b> , 50, 265-9	0.9	68
245	Molecular Regulation of Fatty Acid Oxidation in Skeletal Muscle during Aerobic Exercise. <i>Trends in Endocrinology and Metabolism</i> , <b>2018</b> , 29, 18-30	8.8	68
244	AMP-activated protein kinase regulates nicotinamide phosphoribosyl transferase expression in skeletal muscle. <i>Journal of Physiology</i> , <b>2013</b> , 591, 5207-20	3.9	67
243	Eccentric exercise decreases maximal insulin action in humans: muscle and systemic effects. <i>Journal of Physiology</i> , <b>1996</b> , 494 ( Pt 3), 891-8	3.9	67
242	Insulin action in human thighs after one-legged immobilization. <i>Journal of Applied Physiology</i> , <b>1989</b> , 67, 19-23	3.7	65
241	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
240	Circulating FGF21 in humans is potently induced by short term overfeeding of carbohydrates. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 22-29	8.8	64
239	AMP-activated protein kinase in contraction regulation of skeletal muscle metabolism: necessary and/or sufficient?. <i>Acta Physiologica</i> , <b>2009</b> , 196, 155-74	5.6	62
238	Allantoin formation and urate and glutathione exchange in human muscle during submaximal exercise. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 31, 1313-22	7.8	62
237	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
236	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
235	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



234	Effect of endurance exercise training on Ca <sup>2+</sup> calmodulin-dependent protein kinase II expression and signalling in skeletal muscle of humans. <i>Journal of Physiology</i> , <b>2007</b> , 583, 785-95	3.9	61
233	Extracellular-regulated protein kinase cascades are activated in response to injury in human skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , <b>1998</b> , 275, C555-61	5.4	61
232	Combined creatine and protein supplementation in conjunction with resistance training promotes muscle GLUT-4 content and glucose tolerance in humans. <i>Journal of Applied Physiology</i> , <b>2003</b> , 94, 1910-6	3.7	59
231	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
230	Myosin heavy chain composition of single fibres from m. biceps brachii of male body builders. <i>Acta Physiologica Scandinavica</i> , <b>1990</b> , 140, 175-80		57
229	Role of liver nerves and adrenal medulla in glucose turnover of running rats. <i>Journal of Applied Physiology</i> , <b>1985</b> , 59, 1640-6	3.7	57
228	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
227	Regulation of glycogen synthase in skeletal muscle during exercise. <i>Acta Physiologica Scandinavica</i> , <b>2003</b> , 178, 309-19		56
226	Glucose uptake is increased in trained vs. untrained muscle during heavy exercise. <i>Journal of Applied Physiology</i> , <b>2000</b> , 89, 1151-8	3.7	56
225	Mechanism linking glycogen concentration and glycogenolytic rate in perfused contracting rat skeletal muscle. <i>Biochemical Journal</i> , <b>1992</b> , 284 ( Pt 3), 777-80	3.8	56
224	AMPKs 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
223	Effect of creatine supplementation on creatine and glycogen content in rat skeletal muscle. <i>Acta Physiologica Scandinavica</i> , <b>2001</b> , 171, 169-76		55
222	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
221	LKB1 regulates lipid oxidation during exercise independently of AMPK. <i>Diabetes</i> , <b>2013</b> , 62, 1490-9	0.9	54
220	Important role of insulin and flow in stimulating glucose uptake in contracting skeletal muscle. <i>Diabetes</i> , <b>1995</b> , 44, 210-5	0.9	54
219	Adrenal medullary control of muscular and hepatic glycogenolysis and of pancreatic hormonal secretion in exercising rats. <i>Acta Physiologica Scandinavica</i> , <b>1980</b> , 108, 235-42		54
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12	Insulin-stimulated glucose uptake partly relies on p21-activated kinase (PAK)-2, but not PAK1, in mouse skeletal muscle		1
11	Mechanisms involved in follistatin-induced hypertrophy and increased insulin action in skeletal muscle		1
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