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Insulin-resistant muscle is exercise resistant: evidence for reduced response of nuclear-encoded mitochondrial genes to exercise

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#	Paper	IF	Citations
114	Is a nutritional therapeutic approach unsuitable for metabolically healthy but obese women?. 2008 , 51, 1567-9		28
113	PGC-1alpha-mediated regulation of gene expression and metabolism: implications for nutrition and exercise prescriptions. 2008 , 33, 843-62		64
112	PGC-1alpha's relationship with skeletal muscle palmitate oxidation is not present with obesity despite maintained PGC-1alpha and PGC-1beta protein. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E1060-9	6	43
111	Regulation of skeletal muscle mitochondrial fatty acid metabolism in lean and obese individuals. 2009 , 89, 455S-62S		90
110	Short-term exercise training does not stimulate skeletal muscle ATP synthesis in relatives of humans with type 2 diabetes. 2009 , 58, 1333-41		56
109	Regulation and function of FTO mRNA expression in human skeletal muscle and subcutaneous adipose tissue. 2009 , 58, 2402-8		85
108	Skeletal muscle AMP-activated protein kinase is essential for the metabolic response to exercise in vivo. 2009 , 284, 23925-34		111
107	Increased recovery rates of phosphocreatine and inorganic phosphate after isometric contraction in oxidative muscle fibers and elevated hepatic insulin resistance in homozygous carriers of the A-allele of FTO rs9939609. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 596-602	5.6	26
106	Genetic and metabolic effects on skeletal muscle AMPK in young and older twins. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 297, E956-64	6	25
105	AMPK and the biochemistry of exercise: implications for human health and disease. 2009 , 418, 261-75		296
104	Ecodevelopmental contexts for preventing type 2 diabetes in Latino and other racial/ethnic minority populations. 2009 , 32, 89-105		56
103	Lessons learned from studying families genetically predisposed to type 2 diabetes mellitus. 2009 , 9, 200-7		19
102	Brief intense interval exercise activates AMPK and p38 MAPK signaling and increases the expression of PGC-1alpha in human skeletal muscle. <i>Journal of Applied Physiology</i> , 2009 , 106, 929-34	3.7	266
101	Is skeletal muscle mitochondrial dysfunction a cause or an indirect consequence of insulin resistance in humans?. 2009 , 35, 159-67		38
100	Molecular responses to high-intensity interval exercise. 2009 , 34, 428-32		75
99	Mitochondrial function and dysfunction in exercise and insulin resistance. 2009 , 34, 440-6		18
98	Lifestyle modification as the primary treatment of NASH. 2009 , 13, 649-65		45

97	Insulin release, peripheral insulin resistance and muscle function in protein malnutrition: a role of tricarboxylic acid cycle anaplerosis. 2010 , 103, 1237-50		12
96	Effect of physical training on mitochondrial respiration and reactive oxygen species release in skeletal muscle in patients with obesity and type 2 diabetes. 2010 , 53, 1976-85		104
95	Mitochondrial gene expression in elite cyclists: effects of high-intensity interval exercise. 2010 , 110, 597-606		44
94	PGC-1alpha-mediated adaptations in skeletal muscle. 2010 , 460, 153-62		182
93	The role of adipose tissue and lipotoxicity in the pathogenesis of type 2 diabetes. 2010 , 10, 306-15		207
92	PGC-1alpha is required for training-induced prevention of age-associated decline in mitochondrial enzymes in mouse skeletal muscle. 2010 , 45, 336-42		89
91	Exercise intensity-dependent regulation of peroxisome proliferator-activated receptor coactivator-1 mRNA abundance is associated with differential activation of upstream signalling kinases in human skeletal muscle. 2010 , 588, 1779-90		253
90	Compensatory increases in nuclear PGC1alpha protein are primarily associated with subsarcolemmal mitochondrial adaptations in ZDF rats. 2010 , 59, 819-28		47
89	Deficiency of electron transport chain in human skeletal muscle mitochondria in type 2 diabetes mellitus and obesity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E49-58	6	196
88	Gene expression of PPARgamma and PGC-1alpha in human omental and subcutaneous adipose tissues is related to insulin resistance markers and mediates beneficial effects of physical training. 2010 , 162, 515-23		77
87	Subjects with early-onset type 2 diabetes show defective activation of the skeletal muscle PGC-1{alpha}/Mitofusin-2 regulatory pathway in response to physical activity. 2010 , 33, 645-51		138
86	AMPK and SIRT1: a long-standing partnership?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 298, E751-60	6	569
85	Insulin resistance syndrome blunts the mitochondrial anabolic response following resistance exercise. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E466-74	6	38
84	Cafeteria diet-induced insulin resistance is not associated with decreased insulin signaling or AMPK activity and is alleviated by physical training in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E215-24	6	29
83	Regional anatomic differences in skeletal muscle mitochondrial respiration in type 2 diabetes and obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 857-63	5.6	51
82	Deoxyribonucleic acid methylation and gene expression of PPARGC1A in human muscle is influenced by high-fat overfeeding in a birth-weight-dependent manner. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 3048-56	5.6	156
81	Mitochondrial dysfunction and insulin resistance from the outside in: extracellular matrix, the cytoskeleton, and mitochondria. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E749-55	6	65
80	Is there a metabolic program in the skeletal muscle of obese individuals?. 2011 , 2011, 250496		21

79	Obesity impairs skeletal muscle AMPK signaling during exercise: role of AMPK α in the regulation of exercise capacity in vivo. 2011 , 35, 982-9	32
78	Metabolic factors in the development of hepatic steatosis and altered mitochondrial gene expression in vivo. 2011 , 60, 1090-9	47
77	5Sadenosine monophosphate-activated protein kinase and the metabolic syndrome. 2011 , 11, 206-16	11
76	Interactions between the consumption of a high-fat diet and fasting in the regulation of fatty acid oxidation enzyme gene expression: an evaluation of potential mechanisms. 2011 , 300, R212-21	32
75	Bed rest reduces metabolic protein content and abolishes exercise-induced mRNA responses in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011 , 301, E649-58	85
74	Does exercise-induced muscle damage play a role in skeletal muscle hypertrophy?. 2012 , 26, 1441-53	114
73	Fatty liver disease. 2012 , 293-359	9
72	Epinephrine and AICAR-induced PGC-1 β mRNA expression is intact in skeletal muscle from rats fed a high-fat diet. 2012 , 302, C1772-9	15
71	An overview of the contribution of fatness and fitness factors, and the role of exercise, in the formation of health status for individuals who are overweight. 2012 , 11, 19	12
70	Effects of short-term high-fat overfeeding on genome-wide DNA methylation in the skeletal muscle of healthy young men. 2012 , 55, 3341-9	154
69	Exercise increases skeletal muscle GLUT4 gene expression in patients with type 2 diabetes. 2012 , 14, 768-71	28
68	Fasting hyperglycaemia blunts the reversal of impaired glucose tolerance after exercise training in obese older adults. 2012 , 14, 835-41	32
67	Insulin sensitivity and metabolic flexibility following exercise training among different obese insulin-resistant phenotypes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E1292-8	6 54
66	Exercise metabolism and the molecular regulation of skeletal muscle adaptation. 2013 , 17, 162-84	1073
65	Metabolically healthy obesity and risk of mortality: does the definition of metabolic health matter?. 2013 , 36, 2294-300	202
64	New insights in the regulation of skeletal muscle PGC-1 β by exercise and metabolic diseases. 2013 , 10, e79-e85	6
63	Effect of adiposity on insulin action after acute and chronic resistance exercise in non-diabetic women. 2013 , 113, 2933-41	10
62	Calcineurin inhibition and new-onset diabetes mellitus after transplantation. 2013 , 95, 647-52	63

61	Effect of birth weight and 12 weeks of exercise training on exercise-induced AMPK signaling in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E1379-90	6	32
60	Effect of <i>Opuntia humifusa</i> supplementation and acute exercise on insulin sensitivity and associations with PPAR- α and PGC-1 β protein expression in skeletal muscle of rats. 2013 , 14, 7140-54		7
59	The Role of Mitochondria in the Metabolic Syndrome and Insulin Resistance. 2013 , 401-412		
58	The impact of race and higher socioeconomic status on cardiorespiratory fitness. 2013 , 45, 2286-91		9
57	High-intensity interval training increases in vivo oxidative capacity with no effect on P(i)-ATP rate in resting human muscle. 2013 , 304, R333-42		18
56	Effect of exercise on the skeletal muscle proteome in patients with type 2 diabetes. 2013 , 45, 1069-76		31
55	Does DNA methylation of PPARGC1A influence insulin action in first degree relatives of patients with type 2 diabetes?. <i>PLoS ONE</i> , 2013 , 8, e58384	3-7	22
54	Dissociation of increases in PGC-1 β and its regulators from exercise intensity and muscle activation following acute exercise. <i>PLoS ONE</i> , 2013 , 8, e71623	3-7	72
53	Effects of exercise training on mitochondrial function in patients with type 2 diabetes. 2014 , 5, 482-92		13
52	Skeletal muscle nitric oxide (NO) synthases and NO-signaling in "diabesity"--what about the relevance of exercise training interventions?. 2014 , 37, 28-40		24
51	High-intensity interval training alters ATP pathway flux during maximal muscle contractions in humans. 2014 , 211, 147-60		11
50	Exercise-induced skeletal muscle remodeling and metabolic adaptation: redox signaling and role of autophagy. 2014 , 21, 154-76		112
49	Adenine nucleotide translocase is acetylated in vivo in human muscle: Modeling predicts a decreased ADP affinity and altered control of oxidative phosphorylation. 2014 , 53, 3817-29		39
48	Increases in insulin sensitivity among obese youth are associated with gene expression changes in whole blood. <i>Obesity</i> , 2014 , 22, 1337-44	8	8
47	Enhancing the Metabolic Benefits of Bariatric Surgery: Tipping the Scales With Exercise. 2015 , 64, 3656-8		2
46	Diabetes and stem cell function. 2015 , 2015, 592915		21
45	Gene and MicroRNA Expression Responses to Exercise; Relationship with Insulin Sensitivity. <i>PLoS ONE</i> , 2015 , 10, e0127089	3-7	44
44	Rugby-specific small-sided games training is an effective alternative to stationary cycling at reducing clinical risk factors associated with the development of type 2 diabetes: a randomized, controlled trial. <i>PLoS ONE</i> , 2015 , 10, e0127548	3-7	12

43	Phosphatidylinositol-3,4,5-triphosphate and cellular signaling: implications for obesity and diabetes. 2015 , 35, 1253-75	44
42	A common variant in the CLDN7/ELP5 locus predicts adiponectin change with lifestyle intervention and improved fitness in obese individuals with diabetes. 2015 , 47, 215-24	4
41	A transcriptional signature of "exercise resistance" in skeletal muscle of individuals with type 2 diabetes mellitus. 2015 , 64, 999-1004	25
40	Similar mitochondrial signaling responses to a single bout of continuous or small-sided-games-based exercise in sedentary men. <i>Journal of Applied Physiology</i> , 2016 , 121, 1326-1334 ^{3,7}	4
39	Exercise resistance across the prediabetes phenotypes: Impact on insulin sensitivity and substrate metabolism. 2016 , 17, 81-90	16
38	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. 2016 , 65, 1219-30	47
37	Exercise and diabetes: relevance and causes for response variability. 2016 , 51, 390-401	44
36	Effect of regional muscle location but not adiposity on mitochondrial biogenesis-regulating proteins. 2016 , 116, 11-8	3
35	Deficiency of the hepatokine selenoprotein P increases responsiveness to exercise in mice through upregulation of reactive oxygen species and AMP-activated protein kinase in muscle. 2017 , 23, 508-516	79
34	Characterization of the novel protein KIAA0564 (Von Willebrand Domain-containing Protein 8). 2017 , 487, 545-551	11
33	Roux-en-Y gastric bypass surgery enhances contraction-mediated glucose metabolism in primary human myotubes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 313, E195-E202 ⁶	7
32	Intact initiation of autophagy and mitochondrial fission by acute exercise in skeletal muscle of patients with Type 2 diabetes. 2017 , 131, 37-47	22
31	Exercise and high-fat feeding remodel transcript-metabolite interactive networks in mouse skeletal muscle. 2017 , 7, 13485	13
30	Improvement of obesity-linked skeletal muscle insulin resistance by strength and endurance training. 2017 , 234, R159-R181	42
29	Principles of Exercise Prescription, and How They Influence Exercise-Induced Changes of Transcription Factors and Other Regulators of Mitochondrial Biogenesis. 2018 , 48, 1541-1559	48
28	Molecular Basis of Exercise-Induced Skeletal Muscle Mitochondrial Biogenesis: Historical Advances, Current Knowledge, and Future Challenges. 2018 , 8,	26
27	Mitochondria in Muscle and Exercise. 2018 , 125-136	
26	Sources of Inter-individual Variability in the Therapeutic Response of Blood Glucose Control to Exercise in Type 2 Diabetes: Going Beyond Exercise Dose. <i>Frontiers in Physiology</i> , 2018 , 9, 896	4.6 29

25	Omics Approaches to Understanding Muscle Biology. 2019 ,		2
24	Exercise Induction of Key Transcriptional Regulators of Metabolic Adaptation in Muscle Is Preserved in Type 2 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019 , 104, 4909-4920	5.6	6
23	The combination of exercise training and sodium-glucose cotransporter-2 inhibition improves glucose tolerance and exercise capacity in a rodent model of type 2 diabetes. 2019 , 97, 68-80		3
22	N-acetyl-L-cysteine Prevents Lactate-Mediated PGC1-alpha Expression in C2C12 Myotubes. 2019 , 8,		6
21	Modified UCN2 Peptide Acts as an Insulin Sensitizer in Skeletal Muscle of Obese Mice. 2019 , 68, 1403-1414		9
20	Electrical pulse stimulation induces differential responses in insulin action in myotubes from severely obese individuals. 2019 , 597, 449-466		14
19	Forty high-intensity interval training sessions blunt exercise-induced changes in the nuclear protein content of PGC-1 α and p53 in human skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E224-E236	6	11
18	The effects of two iso-volume endurance training protocols on mitochondrial dysfunction in type 2 diabetic male mice. 2020 , 19, 1097-1103		
17	Subpopulation-specific differences in skeletal muscle mitochondria in humans with obesity: insights from studies employing acute nutritional and exercise stimuli. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020 , 318, E538-E553	6	4
16	The lifecycle of skeletal muscle mitochondria in obesity. 2021 , 22, e13164		8
15	Altered Transcription Factor Expression Responses to Exercise in Insulin Resistance. <i>Frontiers in Physiology</i> , 2021 , 12, 649461	4.6	2
14	New Horizon: Exercise and a Focus on Tissue-Brain Crosstalk. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, 2147-2163	5.6	2
13	Lack of Increase in Muscle Mitochondrial Protein Synthesis During the Course of Aerobic Exercise and Its Recovery in the Fasting State Irrespective of Obesity. <i>Frontiers in Physiology</i> , 2021 , 12, 702742	4.6	2
12	Culprits or consequences: Understanding the metabolic dysregulation of muscle in diabetes. <i>World Journal of Biological Chemistry</i> , 2021 , 12, 70-86	3.8	0
11	Changes in Pre- and Post-Exercise Gene Expression among Patients with Chronic Kidney Disease and Kidney Transplant Recipients. <i>PLoS ONE</i> , 2016 , 11, e0160327	3.7	6
10	Intact regulation of muscle expression and circulating levels of myokines in response to exercise in patients with Type 2 diabetes. <i>Physiological Reports</i> , 2018 , 6, e13723	2.6	18
9	Reactive oxygen species, health and longevity. <i>AIMS Molecular Science</i> , 2016 , 3, 479-504	0.9	2
8	An optimal exercise protocol for improving endurance performance and health. <i>The Journal of Physical Fitness and Sports Medicine</i> , 2012 , 1, 595-604	0.5	1

7	Effects of Exercise Intensity on PGC-1 α /PPAR- α and Insulin Resistance in Skeletal Muscle of High Fat Diet-fed Sprague-Dawley Rats. <i>Journal of the Korean Society of Food Science and Nutrition</i> , 2014 , 43, 963-971	1.5	
6	Proteomic Profiling of Human Skeletal Muscle in Health and Disease. 2019 , 137-154		
5	Forty high-intensity interval training sessions blunt exercise-induced changes in the nuclear protein content of PGC-1 α and p53 in human skeletal muscle.		
4	Differential expression and clinical significance of COX6C in human diseases. <i>American Journal of Translational Research (discontinued)</i> , 2021 , 13, 1-10	3	3
3	Methylglyoxal reduces molecular responsiveness to 4 weeks of endurance exercise in mouse plantaris muscle.. <i>Journal of Applied Physiology</i> , 2022 ,	3.7	0
2	Impact of obesity on the molecular response to a single bout of exercise in a preliminary human cohort.. <i>Obesity</i> , 2022 , 30, 1091-1104	8	1
1	Acute responsiveness to single leg cycling in adults with obesity. 2022 , 10,		0