Glenn K Mcconell

List of Publications by Year
in descending order

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80 papers	3,256 citations	168829 31 h-index	175968 55 g-index
82 all docs	82 docs citations	82 times ranked	4189 citing authors

#	Article	IF	Citations
1	Insulinâ€induced membrane permeability to glucose in human muscles at rest and following exercise. Journal of Physiology, 2020, 598, 303-315.	1.3	35
2	Maternal exercise attenuates the lower skeletal muscle glucose uptake and insulin secretion caused by paternal obesity in female adult rat offspring. Journal of Physiology, 2020, 598, 4251-4270.	1.3	18
3	Six high-intensity interval training sessions over 5 days increases maximal oxygen uptake, endurance capacity, and sub-maximal exercise fat oxidation as much as 6 high-intensity interval training sessions over 2 weeks. Journal of Sport and Health Science, 2020, 10, 478-487.	3.3	18
4	Skeletal muscle AMPK is not activated during 2Âh of moderate intensity exercise at âˆ¼65% in endurance trained men. Journal of Physiology, 2020, 598, 3859-3870.	1.3	22
5	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.	1.8	4
6	It's well and truly time to stop stating that AMPK regulates glucose uptake and fat oxidation during exercise. American Journal of Physiology - Endocrinology and Metabolism, 2020, 318, E564-E567.	1.8	16
7	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.	0.2	0
8	Glucocorticoid-Induced Insulin Resistance in Men Is Associated With Suppressed Undercarboxylated Osteocalcin. Journal of Bone and Mineral Research, 2019, 34, 49-58.	3.1	24
9	Cycling time trial performance is improved by carbohydrate ingestion during exercise regardless of a fed or fasted state. Scandinavian Journal of Medicine and Science in Sports, 2019, 29, 651-662.	1.3	9
10	Undercarboxylated Osteocalcin Improves Insulin-Stimulated Glucose Uptake in Muscles of Corticosterone-Treated Mice. Journal of Bone and Mineral Research, 2019, 34, 1517-1530.	3.1	26
11	Normal increases in insulin-stimulated glucose uptake after ex vivo contraction in neuronal nitric oxide synthase mu (nNOSÎ¼) knockout mice. Pflugers Archiv European Journal of Physiology, 2019, 471, 961-969.	1.3	3
12	Four weeks of exercise early in life reprograms adult skeletal muscle insulin resistance caused by a paternal highâ€fat diet. Journal of Physiology, 2019, 597, 121-136.	1.3	16
13	Passive stretch regulates skeletal muscle glucose uptake independent of nitric oxide synthase. Journal of Applied Physiology, 2019, 126, 239-245.	1.2	6
14	The Endocrine Actions of Undercarboxylated Osteocalcin in Skeletal Muscle: Effects and Mechanisms. , 2019, , 145-171.		1
15	Uncarboxylated Osteocalcin Enhances Glucose Uptake Ex Vivo in Insulin-Stimulated Mouse Oxidative But Not Glycolytic Muscle. Calcified Tissue International, 2018, 103, 198-205.	1.5	19
16	Acute HIIE elicits similar changes in human skeletal muscle mitochondrial H₂O₂ release, respiration, and cell signaling as endurance exercise even with less work. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R1003-R1016.	0.9	26
17	Acidosis, but Not Alkalosis, Affects Anaerobic Metabolism and Performance in a 4-km Time Trial. Medicine and Science in Sports and Exercise, 2017, 49, 1899-1910.	0.2	20
18	Exercise Increases Human Skeletal Muscle Insulin Sensitivity via Coordinated Increases in Microvascular Perfusion and Molecular Signaling. Diabetes, 2017, 66, 1501-1510.	0.3	120

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19	Nitric oxide is required for the insulin sensitizing effects of contraction in mouse skeletal muscle. Journal of Physiology, 2017, 595, 7427-7439.	1.3	6
20	Attempting to Compensate for Reduced Neuronal Nitric Oxide Synthase Protein with Nitrate Supplementation Cannot Overcome Metabolic Dysfunction but Rather Has Detrimental Effects in Dystrophin-Deficient mdx Muscle. Neurotherapeutics, 2017, 14, 429-446.	2.1	28
21	Recombinant Uncarboxylated Osteocalcin Per Se Enhances Mouse Skeletal Muscle Glucose Uptake in both Extensor Digitorum Longus and Soleus Muscles. Frontiers in Endocrinology, 2017, 8, 330.	1.5	21
22	Acute exercise alters skeletal muscle mitochondrial respiration and H2O2 emission in response to hyperinsulinemic-euglycemic clamp in middle-aged obese men. PLoS ONE, 2017, 12, e0188421.	1.1	14
23	Tocotrienols and Whey Protein Isolates Substantially Increase Exercise Endurance Capacity in Diet -Induced Obese Male Sprague-Dawley Rats. PLoS ONE, 2016, 11, e0152562.	1.1	9
24	Glucose-loading reduces bone remodeling in women and osteoblast function inÂvitro. Physiological Reports, 2016, 4, e12700.	0.7	38
25	Endurance training in early life results in long-term programming of heart mass in rats. Physiological Reports, 2016, 4, e12720.	0.7	16
26	Skeletal muscle glucose uptake during treadmill exercise in neuronal nitric oxide synthase-Î¼ knockout mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E838-E845.	1.8	10
27	Glucose-6-phosphate dehydrogenase contributes to the regulation of glucose uptake in skeletal muscle. Molecular Metabolism, 2016, 5, 1083-1091.	3.0	19
28	No effect of acute beetroot juice ingestion on oxygen consumption, glucose kinetics, or skeletal muscle metabolism during submaximal exercise in males. Journal of Applied Physiology, 2016, 120, 391-398.	1.2	31
29	Muscle redox signalling pathways in exercise. Role of antioxidants. Free Radical Biology and Medicine, 2016, 98, 29-45.	1.3	71
30	A Single Dose of Prednisolone as a Modulator of Undercarboxylated Osteocalcin and Insulin Sensitivity Post-Exercise in Healthy Young Men: A Study Protocol. JMIR Research Protocols, 2016, 5, e78.	0.5	4
31	Statin-Induced Increases in Atrophy Gene Expression Occur Independently of Changes in PGC1Î± Protein and Mitochondrial Content. PLoS ONE, 2015, 10, e0128398.	1.1	24
32	Acute exercise increases insulin sensitivity in adult sheep: a new preclinical model. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R500-R506.	0.9	15
33	Glucose uptake during contraction in isolated skeletal muscles from neuronal nitric oxide synthase Î¼ knockout mice. Journal of Applied Physiology, 2015, 118, 1113-1121.	1.2	14
34	No effect of NOS inhibition on skeletal muscle glucose uptake during in situ hindlimb contraction in healthy and diabetic Sprague-Dawley rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R862-R871.	0.9	11
35	The effect of hyperinsulinaemic-euglycaemic clamp and exercise on bone remodeling markers in obese men. BoneKEy Reports, 2015, 4, 731.	2.7	10
36	Leptin Enhances Insulin Sensitivity by Direct and Sympathetic Nervous System Regulation of Muscle IGFBP-2 Expression: Evidence From Nonrodent Models. Endocrinology, 2014, 155, 2133-2143.	1.4	42

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37	Role of nitric oxide in skeletal muscle glucose uptake during exercise. Experimental Physiology, 2014, 99, 1569-1573.	0.9	23
38	Exercise as an intervention to improve metabolic outcomes after intrauterine growth restriction. American Journal of Physiology - Endocrinology and Metabolism, 2014, 306, E999-E1012.	1.8	18
39	The Effect of Acute Exercise on Undercarboxylated Osteocalcin and Insulin Sensitivity in Obese Men. Journal of Bone and Mineral Research, 2014, 29, 2571-2576.	3.1	80
40	Growth restriction in the rat alters expression of metabolic genes during postnatal cardiac development in a sex-specific manner. Physiological Genomics, 2013, 45, 99-105.	1.0	23
41	Exercise early in life in rats born small does not normalize reductions in skeletal muscle PGC-1Î± in adulthood. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1221-E1230.	1.8	20
42	Do Reactive Oxygen Species Regulate Skeletal Muscle Glucose Uptake During Contraction?. Exercise and Sport Sciences Reviews, 2012, 40, 102-105.	1.6	25
43	Skeletal muscle nitric oxide signaling and exercise: a focus on glucose metabolism. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E301-E307.	1.8	66
44	Mitochondrial ROS and muscle glucose uptake during exercise in transgenic mice. Journal of Applied Physiology, 2012, 113, 1171-1172.	1.2	0
45	Short-Term Intensified Cycle Training Alters Acute and Chronic Responses of PGC1Î± and Cytochrome C Oxidase IV to Exercise in Human Skeletal Muscle. PLoS ONE, 2012, 7, e53080.	1.1	56
46	Short-term exercise training early in life restores deficits in pancreatic Î²-cell mass associated with growth restriction in adult male rats. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E931-E940.	1.8	48
47	Effect of l-Arginine Infusion on Glucose Disposal during Exercise in Humans. Medicine and Science in Sports and Exercise, 2011, 43, 1626-1634.	0.2	22
48	Early functional muscle regeneration after myotoxic injury in mice is unaffected by nNOS absence. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1358-R1366.	0.9	10
49	Central infusion of leptin does not increase AMPK signaling in skeletal muscle of sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R511-R518.	0.9	12
50	Nâ€Acetylcysteine infusion does not affect glucose disposal during prolonged moderateâ€intensity exercise in humans. Journal of Physiology, 2010, 588, 1623-1634.	1.3	36
51	Skeletal muscle glucose uptake during contraction is regulated by nitric oxide and ROS independently of AMPK. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E577-E585.	1.8	110
52	No effect of acute ingestion of Thai ginseng (Kaempferia parviflora) on sprint and endurance exercise performance in humans. Journal of Sports Sciences, 2010, 28, 1243-1250.	1.0	7
53	Downstream mechanisms of nitric oxide-mediated skeletal muscle glucose uptake during contraction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1656-R1665.	0.9	37
54	The effects of exercise on skeletal muscle GLUT4 expression in patients with type 2 diabetes. FASEB Journal, 2010, 24, 989.5.	0.2	0

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55	Does training fasted make you fast?. Journal of Applied Physiology, 2009, 106, 1757-1758.	1.2	1
56	AMPK activation is fiber type specific in human skeletal muscle: effects of exercise and short-term exercise training. Journal of Applied Physiology, 2009, 107, 283-289.	1.2	62
57	Skeletal muscle glucose uptake during exercise: A focus on reactive oxygen species and nitric oxide signaling. IUBMB Life, 2009, 61, 479-484.	1.5	58
58	Effects of starting strategy on 5-min cycling time-trial performance. Journal of Sports Sciences, 2009, 27, 1201-1209.	1.0	24
59	POTENTIAL ROLE OF NITRIC OXIDE IN CONTRACTIONâ€STIMULATED GLUCOSE UPTAKE AND MITOCHONDRIAL BIOGENESIS IN SKELETAL MUSCLE. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 1488-1492.	0.9	29
60	Uteroplacental insufficiency and reducing litter size alters skeletal muscle mitochondrial biogenesis in a sex-specific manner in the adult rat. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E861-E869.	1.8	46
61	Acute Exercise Does Not Cause Sustained Elevations in AMPK Signaling or Expression. Medicine and Science in Sports and Exercise, 2008, 40, 1490-1494.	0.2	24
62	Skeletal muscle nNOSÎ¼ protein content is increased by exercise training in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R821-R828.	0.9	108
63	Local Nitric Oxide Synthase Inhibition Reduces Skeletal Muscle Glucose Uptake but Not Capillary Blood Flow During In Situ Muscle Contraction in Rats. Diabetes, 2007, 56, 2885-2892.	0.3	64
64	Effects of L-arginine supplementation on exercise metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2007, 10, 46-51.	1.3	44
65	Skeletal muscle neuronal nitric oxide synthase Î¼ protein is reduced in people with impaired glucose homeostasis and is not normalized by exercise training. Metabolism: Clinical and Experimental, 2007, 56, 1405-1411.	1.5	25
66	Does Nitric Oxide Regulate Skeletal Muscle Glucose Uptake during Exercise?. Exercise and Sport Sciences Reviews, 2006, 34, 36-41.	1.6	46
67	Carbohydrate ingestion does not alter skeletal muscle AMPK signaling during exercise in humans. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E566-E573.	1.8	32
68	Creatine Supplementation Reduces Muscle Inosine Monophosphate during Endurance Exercise in Humans. Medicine and Science in Sports and Exercise, 2005, 37, 2054-2061.	0.2	21
69	Short-term exercise training in humans reduces AMPK signalling during prolonged exercise independent of muscle glycogen. Journal of Physiology, 2005, 568, 665-676.	1.3	108
70	Prevailing hyperglycemia is critical in the regulation of glucose metabolism during exercise in poorly controlled alloxan-diabetic dogs. Journal of Applied Physiology, 2005, 98, 930-939.	1.2	13
71	Skeletal muscle interleukin-6 and tumor necrosis factor-Î± release in healthy subjects and patients with type 2 diabetes at rest and during exercise. Metabolism: Clinical and Experimental, 2003, 52, 939-944.	1.5	69
72	Effect of Exercise Intensity on Skeletal Muscle AMPK Signaling in Humans. Diabetes, 2003, 52, 2205-2212.	0.3	299

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73	Type 2 Diabetic Individuals Have Impaired Leg Blood Flow Responses to Exercise: Role of endothelium-dependent vasodilation. Diabetes Care, 2003, 26, 899-904.	4.3	149
74	Nitric Oxide Synthase Inhibition Reduces Glucose Uptake During Exercise in Individuals With Type 2 Diabetes More Than in Control Subjects. Diabetes, 2002, 51, 2572-2580.	0.3	132
75	Effect of sodium bicarbonate on muscle metabolism during intense endurance cycling. Medicine and Science in Sports and Exercise, 2002, 34, 614-621.	0.2	32
76	Effect of carbohydrate ingestion on glucose kinetics and muscle metabolism during intense endurance exercise. Journal of Applied Physiology, 2000, 89, 1690-1698.	1.2	64
77	AMPK signaling in contracting human skeletal muscle: acetyl-CoA carboxylase and NO synthase phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E1202-E1206.	1.8	275
78	Fluid ingestion does not influence intense 1-h exercise performance in a mild environment. Medicine and Science in Sports and Exercise, 1999, 31, 386-392.	0.2	44
79	Effect of timing of carbohydrate ingestion on endurance exercise performance. Medicine and Science in Sports and Exercise, 1996, 28, 1300-1304.	0.2	55
80	Accumulated oxygen deficit during supramaximal all-out and constant intensity exercise. Medicine and Science in Sports and Exercise, 1995, 27, 255???263.	0.2	73