## Robert C Hickner

List of Publications by Year in descending order

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125 papers 4,599 citations

94269 37 h-index 64 g-index

127 all docs

127 docs citations

times ranked

127

5943 citing authors

#	Article	IF	CITATIONS
1	Lipid oxidation is reduced in obese human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E1039-E1044.	1.8	494
2	Endothelial Dysfunction: Is There a Hyperglycemia-Induced Imbalance of NOX and NOS?. International Journal of Molecular Sciences, 2019, 20, 3775.	1.8	184
3	Vitamin D and Endothelial Function. Nutrients, 2020, 12, 575.	1.7	177
4	Lower skeletal muscle capillarization and VEGF expression in aged vs. young men. Journal of Applied Physiology, 2006, 100, 178-185.	1.2	138
5	Prolonged exercise decreases serum leptin concentrations. Metabolism: Clinical and Experimental, 1997, 46, 1109-1112.	1.5	121
6	Lower capillary density but no difference in VEGF expression in obese vs. lean young skeletal muscle in humans. Journal of Applied Physiology, 2005, 98, 315-321.	1.2	115
7	Angiogenic growth factor response to acute systemic exercise in human skeletal muscle. Journal of Applied Physiology, 2004, 96, 19-24.	1.2	113
8	Effects of endurance exercise training on muscle glycogen accumulation in humans. Journal of Applied Physiology, 1999, 87, 222-226.	1.2	111
9	The ethanol technique of monitoring local blood flow changes in rat skeletal muscle: implications for microdialysis. Acta Physiologica Scandinavica, 1992, 146, 87-97.	2.3	110
10	Assessment of <i>in vivo</i> skeletal muscle mitochondrial respiratory capacity in humans by nearâ€infrared spectroscopy: a comparison with <i>in situ</i> measurements. Journal of Physiology, 2014, 592, 3231-3241.	1.3	110
11	Effect of exercise intensity and volume on persistence of insulin sensitivity during training cessation. Journal of Applied Physiology, 2009, 106, 1079-1085.	1.2	109
12	Impaired plasma fatty acid oxidation in extremely obese women. American Journal of Physiology - Endocrinology and Metabolism, 2004, 287, E1076-E1081.	1.8	95
13	No difference in the skeletal muscle angiogenic response to aerobic exercise training between young and aged men. Journal of Physiology, 2007, 585, 231-239.	1.3	95
14	Lower capillarization, VEGF protein, and VEGF mRNA response to acute exercise in the vastus lateralis muscle of aged vs. young women. Journal of Applied Physiology, 2005, 99, 1872-1879.	1.2	93
15	Acute resistance exercise increases skeletal muscle angiogenic growth factor expression. Acta Physiologica, 2007, 191, 139-146.	1.8	91
16	Effect of endurance exercise training on muscle glycogen supercompensation in rats. Journal of Applied Physiology, 1997, 82, 711-715.	1.2	82
17	Influence of age and resistance exercise on human skeletal muscle proteolysis: a microdialysis approach. Journal of Physiology, 2004, 554, 803-813.	1.3	77
18	Fat metabolism and acute resistance exercise in trained men. Journal of Applied Physiology, 2007, 102, 1767-1772.	1.2	74

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19	Ageâ€related anabolic resistance after enduranceâ€type exercise in healthy humans. FASEB Journal, 2010, 24, 4117-4127.	0.2	73
20	Muscle blood flow in cats: comparison of microdialysis ethanol technique with direct measurement. Journal of Applied Physiology, 1995, 79, 638-647.	1.2	68
21	Overexpression of PGC- $\hat{\Pi}$ ± increases peroxisomal activity and mitochondrial fatty acid oxidation in human primary myotubes. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E253-E263.	1.8	68
22	Norepinephrine response to exercise at the same relative intensity before and after endurance exercise training. Journal of Applied Physiology, 1999, 86, 531-535.	1,2	67
23	Affective and Self-Efficacy Responses to Acute Aerobic Exercise in Sedentary Older and Younger Adults. Journal of Aging and Physical Activity, 2007, 15, 123-138.	0.5	66
24	Changes in Blood Flow and Cellular Metabolism at a Myofascial Trigger Point With Trigger Point Release (Ischemic Compression): A Proof-of-Principle Pilot Study. Archives of Physical Medicine and Rehabilitation, 2013, 94, 196-200.	0.5	62
25	Skeletal Muscle Fat Oxidation Is Increased in Africanâ€American and White Women after 10 days of Endurance Exercise Training. Obesity, 2006, 14, 1201-1210.	1.5	61
26	Regulation of fat metabolism during resistance exercise in sedentary lean and obese men. Journal of Applied Physiology, 2009, 106, 1529-1537.	1,2	60
27	L-Citrulline Reduces Time to Exhaustion and Insulin Response to a Graded Exercise Test. Medicine and Science in Sports and Exercise, 2006, 38, 660-666.	0.2	59
28	Ketone body metabolism in lean and obese women. Metabolism: Clinical and Experimental, 2005, 54, 1542-1545.	1.5	57
29	NO-mediated alterations in skeletal muscle nutritive blood flow and lactate metabolism in fibromyalgia. Pain, 2006, 120, 161-169.	2.0	55
30	Long- and medium-chain fatty acid oxidation is increased in exercise-trained human skeletal muscle. Metabolism: Clinical and Experimental, 2002, 51, 460-464.	1.5	54
31	Microvascular Endothelial Dysfunction in Sedentary, Obese Humans Is Mediated by NADPH Oxidase. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2412-2420.	1.1	54
32	Novel role for thioredoxin reductaseâ€2 in mitochondrial redox adaptations to obesogenic diet and exercise in heart and skeletal muscle. Journal of Physiology, 2013, 591, 3471-3486.	1.3	53
33	IL-15 concentrations in skeletal muscle and subcutaneous adipose tissue in lean and obese humans: local effects of IL-15 on adipose tissue lipolysis. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E1131-E1139.	1.8	52
34	Effect of exercise training on metabolic flexibility in response to a high-fat diet in obese individuals. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1440-E1445.	1.8	46
35	Aging and the Skeletal Muscle Angiogenic Response to Exercise in Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1189-1197.	1.7	41
36	Effect of intense training on plasma leptin in male and female swimmers. Medicine and Science in Sports and Exercise, 2001, 33, 227-231.	0.2	39

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37	Fatty acid oxidation by skeletal muscle homogenates from morbidly obese black and white American women. Metabolism: Clinical and Experimental, 2003, 52, 735-738.	1.5	37
38	Deletion of the Protein Kinase A/Protein Kinase G Target SMTNL1 Promotes an Exercise-adapted Phenotype in Vascular Smooth Muscle. Journal of Biological Chemistry, 2008, 283, 11850-11859.	1.6	37
39	Smoothelin-like 1 Protein Regulates Myosin Phosphatase-targeting Subunit 1 Expression during Sexual Development and Pregnancy*. Journal of Biological Chemistry, 2010, 285, 29357-29366.	1.6	37
40	Lipid-induced insulin resistance is prevented in lean and obese myotubes by AICAR treatment. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R1692-R1699.	0.9	37
41	Estrogen receptor protein content is different in abdominal than gluteal subcutaneous adipose tissue of overweight-to-obese premenopausal women. Metabolism: Clinical and Experimental, 2013, 62, 1180-1188.	1.5	36
42	Estradiol effects on subcutaneous adipose tissue lipolysis in premenopausal women are adipose tissue depot specific and treatment dependent. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E1167-E1174.	1.8	35
43	Responses of Lipolysis and Salivary Cortisol to Food Intake and Physical Activity in Lean and Obese Children. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 4701-4707.	1.8	34
44	Suppression of Whole Body and Regional Lipolysis by Insulin: Effects of Obesity and Exercise. Journal of Clinical Endocrinology and Metabolism, 1999, 84, 3886-3895.	1.8	32
45	Acute Modulation of Adipose Tissue Lipolysis by Intravenous Estrogens. Obesity, 2006, 14, 2163-2172.	1.5	31
46	Exercise prevents Western diet-associated erectile dysfunction and coronary artery endothelial dysfunction: response to acute apocynin and sepiapterin treatment. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R423-R434.	0.9	31
47	A Randomized Trial Investigating the Influence of Strength Training on Quality of Life in Ischemic Stroke. Topics in Stroke Rehabilitation, 2016, 23, 84-89.	1.0	31
48	A mathematical model for measuring blood flow in skeletal muscle with the microdialysis ethanol technique. Journal of Applied Physiology, 1995, 79, 648-659.	1.2	30
49	The Influence of Resistance Exercise Training on the Levels of Anxiety in Ischemic Stroke. Stroke Research and Treatment, 2012, 2012, 1-6.	0.5	30
50	Comparison of a Field-Based Test to Estimate Functional Threshold Power and Power Output at Lactate Threshold. Journal of Strength and Conditioning Research, 2012, 26, 416-421.	1.0	30
51	Progesterone increases skeletal muscle mitochondrial H <sub>2</sub> O <sub>2</sub> emission in nonmenopausal women. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E528-E535.	1.8	29
52	Acute endurance exercise increases skeletal muscle uncoupling protein-3 gene expression in untrained but not trained humans. Metabolism: Clinical and Experimental, 2003, 52, 152-158.	1.5	24
53	Effect of 28 days of creatine ingestion on muscle metabolism and performance of a simulated cycling road race. Journal of the International Society of Sports Nutrition, 2010, 7, 26.	1.7	24
54	The influence of the level of physical activity and human development in the quality of life in survivors of stroke. Health and Quality of Life Outcomes, 2011, 9, 89.	1.0	24

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55	The Effect of Casein Protein Prior to Sleep on Fat Metabolism in Obese Men. Nutrients, 2016, 8, 452.	1.7	24
56	The Evolving Applications of Creatine Supplementation: Could Creatine Improve Vascular Health?. Nutrients, 2020, 12, 2834.	1.7	24
57	Microdialysis of rat skeletal muscle and adipose tissue: dynamics of the interstitial glucose pool. Acta Physiologica Scandinavica, 1994, 151, 249-260.	2.3	23
58	Differences in the lipolytic function of adipose tissue preparations from Black American and Caucasian women. Metabolism: Clinical and Experimental, 2002, 51, 1514-1518.	1.5	22
59	Relationship between body composition and skeletal muscle eNOS. International Journal of Obesity, 2006, 30, 308-312.	1.6	22
60	Comparison of Predictive Equations and Measured Resting Energy Expenditure Among Obese Youth Attending a Pediatric Healthy Weight Clinic. Nutrition in Clinical Practice, 2013, 28, 617-624.	1.1	22
61	Skeletal muscle interstitial fluid metabolomics at rest and associated with an exercise bout: application in rats and humans. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E43-E53.	1.8	22
62	Erectile Dysfunction Precedes Coronary Artery Endothelial Dysfunction in Rats Fed a High-Fat, High-Sucrose, Western Pattern Diet. Journal of Sexual Medicine, 2013, 10, 694-703.	0.3	21
63	Lung protective ventilation (ARDSNet) versus airway pressure release ventilation. Journal of Trauma and Acute Care Surgery, 2015, 78, 240-251.	1.1	20
64	Pregnancy and Smoothelin-like Protein 1 (SMTNL1) Deletion Promote the Switching of Skeletal Muscle to a Glycolytic Phenotype in Human and Mice. Journal of Biological Chemistry, 2015, 290, 17985-17998.	1.6	19
65	Greater Oxidative Capacity in Primary Myotubes from Endurance-trained Women. Medicine and Science in Sports and Exercise, 2017, 49, 2151-2157.	0.2	19
66	Obesity, insulin resistance, and skeletal muscle nitric oxide synthase. Journal of Applied Physiology, 2012, 113, 758-765.	1.2	18
67	Increase in Lactate Without Change in Nutritive Blood Flow or Glucose at Active Trigger Points Following Massage: A Randomized Clinical Trial. Archives of Physical Medicine and Rehabilitation, 2018, 99, 2151-2159.	0.5	17
68	Effects of 10 Days of Endurance Exercise Training on the Suppression of Whole Body and Regional Lipolysis by Insulin. Journal of Clinical Endocrinology and Metabolism, 2000, 85, 1498-1504.	1.8	16
69	Increased adipose tissue lipolysis after a 2-week high-fat diet in sedentary overweight/obese men. Metabolism: Clinical and Experimental, 2011, 60, 976-981.	1.5	15
70	Differences in $\hat{l}^2$ -adrenergic receptor densities in omental and subcutaneous adipose tissue from obese African American and Caucasian women. Metabolism: Clinical and Experimental, 2004, 53, 247-251.	1.5	14
71	Energy expenditure of obese, overweight, and normal weight females during lifestyle physical activities. Pediatric Obesity, 2008, 3, 177-185.	3.2	14
72	Overexpression of Long-Chain Acyl-CoA Synthetase 5 Increases Fatty Acid Oxidation and Free Radical Formation While Attenuating Insulin Signaling in Primary Human Skeletal Myotubes. International Journal of Environmental Research and Public Health, 2019, 16, 1157.	1.2	14

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73	The Potential Role of Creatine in Vascular Health. Nutrients, 2021, 13, 857.	1.7	14
74	Fat metabolism and acute resistance exercise in trained women. Journal of Applied Physiology, 2019, 126, 739-745.	1.2	12
75	Lower Skeletal Muscle Nutritive Blood Flow in Older Women Is Related to eNOS Protein Content. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2003, 58, B20-B25.	1.7	11
76	Modest weight loss improves insulin action in obese African Americans. Metabolism: Clinical and Experimental, 2005, 54, 960-965.	1.5	11
77	Endothelial nitric oxide synthase content in adipose tissue from obese and lean African American and white American women. Metabolism: Clinical and Experimental, 2005, 54, 1368-1373.	1.5	11
78	Cardiovascular Responses to Unilateral, Bilateral, and Alternating Limb Resistance Exercise Performed Using Different Body Segments. Journal of Strength and Conditioning Research, 2017, 31, 644-652.	1.0	11
79	Sex differences with aging in nutritive skeletal muscle blood flow: impact of exercise training, nitric oxide, and α-adrenergic-mediated mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 307, H524-H532.	1.5	10
80	Impact of Four Weeks of a Multi-Ingredient Performance Supplement on Muscular Strength, Body Composition, and Anabolic Hormones in Resistance-Trained Young Men. Journal of Strength and Conditioning Research, 2015, 29, 3453-3465.	1.0	10
81	Peroxisomal gene and protein expression increase in response to a high-lipid challenge in human skeletal muscle. Metabolism: Clinical and Experimental, 2019, 98, 53-61.	1.5	10
82	Effects of Pre-Sleep Whey vs. Plant-Based Protein Consumption on Muscle Recovery Following Damaging Morning Exercise. Nutrients, 2020, 12, 2049.	1.7	10
83	Leptin Response to Insulin in Humans Is Related to the Lipolytic State of Abdominal Subcutaneous Fat. Journal of Clinical Endocrinology and Metabolism, 1999, 84, 3726-3731.	1.8	10
84	Adrenal stress hormone action in skeletal muscle during exercise training: An old dog with new tricks?. Acta Physiologica, 2021, 231, e13522.	1.8	9
85	<i>In Vivo</i> Nitric Oxide Suppression of Lipolysis in Subcutaneous Abdominal Adipose Tissue Is Greater in Obese Than Lean Women. Obesity, 2012, 20, 1174-1178.	1.5	8
86	The Relationship Between Physical Activity and the Metabolic Syndrome Score in Children. Pediatric Exercise Science, 2015, 27, 364-371.	0.5	8
87	Peptideâ€YY Levels after a Fat Load in Black and White Women. Obesity, 2005, 13, 2055-2057.	4.0	7
88	Muscle blood flow response to mental stress and adrenaline infusion in man: microdialysis ethanol technique compared to <sup>133</sup> Xe clearance and venous occlusion plethysmography. Clinical Physiology and Functional Imaging, 2010, 30, 152-161.	0.5	7
89	Interplay Between Workload and Functional Perceptual–Cognitive–Affective Responses: An Inclusive Model. Journal of Sport and Exercise Psychology, 2019, 41, 107-118.	0.7	7
90	The Short-Term Effect of Prunes in Improving Bone in Men. Nutrients, 2022, 14, 276.	1.7	7

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91	Diabetic groups as defined by ADA and NDDG criteria have a similar aerobic capacity, blood pressure and body composition. Diabetologia, 2001, 44, 26-32.	2.9	6
92	Lipolysis and Fat Oxidation Are Not Altered with Presleep Compared with Daytime Casein Protein Intake in Resistance-Trained Women. Journal of Nutrition, 2020, 150, 47-54.	1.3	6
93	Basal, but not overload-induced, myonuclear addition is attenuated by $\langle i \rangle N \langle i \rangle \langle sup \rangle G \langle sup \rangle$ -nitro- $\langle scp \rangle I \langle scp \rangle$ -arginine methyl ester ( $\langle scp \rangle I \langle scp \rangle$ -NAME) administration. Canadian Journal of Physiology and Pharmacology, 2007, 85, 646-651.	0.7	5
94	The Relationship between Protein Intake and Source on Factors Associated with Glycemic Control in Individuals with Prediabetes and Type 2 Diabetes. Nutrients, 2020, 12, 2031.	1.7	5
95	Motivational climate, goal orientation and exercise adherence in fitness centers and personal training contexts. Motriz Revista De Educacao Fisica, 2014, 20, 249-256.	0.3	4
96	Exercise Effects on Adipose Tissue Postprandial Lipolysis and Blood Flow in Children. Medicine and Science in Sports and Exercise, 2018, 50, 1249-1257.	0.2	3
97	The effect of cold ambient temperature and preceding active warm-up on lactate kinetics in female cyclists and triathletes. Applied Physiology, Nutrition and Metabolism, 2019, 44, 1043-1051.	0.9	3
98	Systemic delivery of a mitochondria targeted antioxidant partially preserves limb muscle mass and grip strength in response to androgen deprivation. Molecular and Cellular Endocrinology, 2021, 535, 111391.	1.6	3
99	The Relationship Between Physical Activity and the Metabolic Syndrome Score in Children. Pediatric Exercise Science, 2015, 27, 364-371.	0.5	2
100	Take Flight to Reduce Cardiovascular Disease Risk in Youth. Exercise and Sport Sciences Reviews, 2014, 42, 143-144.	1.6	1
101	Effect of L-NAME Administration on Angiogenesis in Overloaded, Hypertrophying Rat Skeletal Muscle. Medicine and Science in Sports and Exercise, 2005, 37, S390.	0.2	1
102	Microvascular Exchange Response To Local Norepinephrine Administration Is Increased After 7-days Of Exercise Training In Elderly Men. Medicine and Science in Sports and Exercise, 2005, 37, S362.	0.2	1
103	Effects of exercise on expression of skeletal muscle acylâ€CoA synthetase isoform gene expression in obese Africanâ€American and Caucasian women. FASEB Journal, 2008, 22, 958.8.	0.2	1
104	Intramyocellular Triacylglycerol is Associated with Peroxisomal Biogenesis in Skeletal Muscle from Lean and Obese Humans. FASEB Journal, 2015, 29, LB708.	0.2	1
105	Fat Metabolism During Acute Resistance Exercise in Lean and Obese Sedentary Men. Medicine and Science in Sports and Exercise, 2008, 40, S3.	0.2	0
106	Adenosine Suppression of in-vivo Lipolysis in Obese Premenopausal Women. Medicine and Science in Sports and Exercise, 2010, 42, 565.	0.2	0
107	A Comparison of Percent Body Fat Determined Using Skinfold and DXA Methods in Healthy Men and Women. Medicine and Science in Sports and Exercise, 2010, 42, 626.	0.2	0
108	Perilipin and Stimulated Lipolysis are Higher in Endurance Trained than Sedentary Lean Men. Medicine and Science in Sports and Exercise, 2011, 43, 811.	0.2	0

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109	Whole Body Fat Oxidation is not Tightly Coupled to Subcutaneous Abdominal Adipose Lipolytic Rate over 24 Hours. Medicine and Science in Sports and Exercise, 2011, 43, 809.	0.2	О
110	Ten Days of Aerobic Exercise Enhances Aortic Endothelium Dependent Relaxation through Depressed NADPH-oxidase Activity. Medicine and Science in Sports and Exercise, 2011, 43, 734.	0.2	0
111	Responses of Lipolysis to Physical Activity in Lean and Overweight Children. Medicine and Science in Sports and Exercise, 2015, 47, 827.	0.2	0
112	Acute effects of single-bout exercise in adults with type 2 diabetes: a systematic review of randomised controlled trials and controlled crossover trials. Journal of Endocrinology Metabolism and Diabetes of South Africa, 2021, 26, 24-28.	0.4	0
113	The PreCor EFX546 Elliptical Trainer Over Predicts Energy Expenditure. Medicine and Science in Sports and Exercise, 2004, 36, S249-S250.	0.2	0
114	Effect Of 7 Days Of Exercise Training On Interstitial VEGF Protein In Young And Aged Skeletal Muscle. Medicine and Science in Sports and Exercise, 2005, 37, S155.	0.2	0
115	Alterations in CVD Risk Factors and Satiety Hormones in Overweight Adolescents with Vigorous Exercise Training. Medicine and Science in Sports and Exercise, 2006, 38, S209.	0.2	0
116	Coâ€morbidities associated with obesity and the role of omegaâ€3 fatty acid intake in freeâ€living healthy weight, overweight and obese college students. FASEB Journal, 2007, 21, A327.	0.2	0
117	Response of Subucutaneous Adipose Tissue Nitric Oxide Synthases to 10 days of Exercise Training. FASEB Journal, 2007, 21, A580.	0.2	0
118	Lipolytic Protein Expression in Lean, Obese, and Exercise Trained Men. FASEB Journal, 2008, 22, 123-123.	0.2	0
119	Relationship between Physical Activity Levels and the Metabolic Syndrome Score. Medicine and Science in Sports and Exercise, 2008, 40, S225.	0.2	0
120	Muscle Glycogen Content and the eEF2 Response to Resistance Exercise in Young and Old Subjects. FASEB Journal, 2011, 25, lb548.	0.2	0
121	Time course of development of erectile dysfunction and coronary artery endothelial dysfunction in response to a western diet: influence of endothelial nitric oxide synthase uncoupling. FASEB Journal, 2012, 26, 866.13.	0.2	0
122	Differential Adaptations to Highâ€calorie, Westernâ€pattern Diet and Exercise Training in Redox Status and Mitochondria of Heart and Skeletal Muscle. FASEB Journal, 2012, 26, lb749.	0.2	0
123	Omegaâ€3 Fatty Acid Intake Patterns in Obese Southern Women. FASEB Journal, 2013, 27, 1072.21.	0.2	0
124	Peroxisomal biogenesis occurs in response to obesity and to a high lipid environment in human skeletal muscle (1159.5). FASEB Journal, 2014, 28, 1159.5.	0.2	0
125	Prevalence of coronary heart disease risk factors in physical education students. Motriz Revista De Educacao Fisica, 2015, 21, 415-420.	0.3	0