

Chad R Hancock

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,878
citations

361413

20
h-index

315739

38
g-index

58
all docs

58
docs citations

58
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	High-fat diets cause insulin resistance despite an increase in muscle mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7815-7820.	7.1	466
2	A Role for the Transcriptional Coactivator PGC-1 α in Muscle Refueling. Journal of Biological Chemistry, 2007, 282, 36642-36651.	3.4	229
3	Raising plasma fatty acid concentration induces increased biogenesis of mitochondria in skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10709-10713.	7.1	208
4	Does calorie restriction induce mitochondrial biogenesis? A reevaluation. FASEB Journal, 2011, 25, 785-791.	0.5	118
5	Repeated exposure to heat stress induces mitochondrial adaptation in human skeletal muscle. Journal of Applied Physiology, 2018, 125, 1447-1455.	2.5	71
6	PPAR α Is Essential for Maintaining Normal Levels of PGC-1 α and Mitochondria and for the Increase in Muscle Mitochondria Induced by Exercise. Cell Metabolism, 2017, 25, 1176-1185.e5.	16.2	69
7	Postexercise recovery of skeletal muscle malonyl-CoA, acetyl-CoA carboxylase, and AMP-activated protein kinase. Journal of Applied Physiology, 1998, 85, 1629-1634.	2.5	63
8	Deficiency of the Mitochondrial Electron Transport Chain in Muscle Does Not Cause Insulin Resistance. PLoS ONE, 2011, 6, e19739.	2.5	54
9	Daily heat treatment maintains mitochondrial function and attenuates atrophy in human skeletal muscle subjected to immobilization. Journal of Applied Physiology, 2019, 127, 47-57.	2.5	51
10	Contraction-mediated phosphorylation of AMPK is lower in skeletal muscle of adenylate kinase-deficient mice. Journal of Applied Physiology, 2006, 100, 406-413.	2.5	45
11	Chronic AMP-activated protein kinase activation and a high-fat diet have an additive effect on mitochondria in rat skeletal muscle. Journal of Applied Physiology, 2010, 109, 511-520.	2.5	44
12	The effects of chronic AMPK activation on hepatic triglyceride accumulation and glycerol 3-phosphate acyltransferase activity with high fat feeding. Diabetology and Metabolic Syndrome, 2013, 5, 29.	2.7	42
13	Skeletal muscle contractile performance and ADP accumulation in adenylate kinase-deficient mice. American Journal of Physiology - Cell Physiology, 2005, 288, C1287-C1297.	4.6	40
14	Skeletal muscle dysfunction in muscle-specific LKB1 knockout mice. Journal of Applied Physiology, 2010, 108, 1775-1785.	2.5	37
15	β -Cell deletion of Nr4a1 and Nr4a3 nuclear receptors impedes mitochondrial respiration and insulin secretion. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E186-E201.	3.5	37
16	³¹ P-NMR observation of free ADP during fatiguing, repetitive contractions of murine skeletal muscle lacking AK1. American Journal of Physiology - Cell Physiology, 2005, 288, C1298-C1304.	4.6	34
17	The effects of age and muscle contraction on AMPK activity and heterotrimer composition. Experimental Gerontology, 2014, 55, 120-128.	2.8	32
18	IL-6 increases muscle insulin sensitivity only at superphysiological levels. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1842-E1846.	3.5	31

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19	AMPK and PPAR α positive feedback loop regulates endurance exercise training-mediated GLUT4 expression in skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E931-E939.	3.5	27
20	AICAR inhibits ceramide biosynthesis in skeletal muscle. <i>Diabetology and Metabolic Syndrome</i> , 2012, 4, 45.	2.7	25
21	Reductions in RIP140 are not required for exercise- and AICAR-mediated increases in skeletal muscle mitochondrial content. <i>Journal of Applied Physiology</i> , 2011, 111, 688-695.	2.5	18
22	Iron deficiency causes a shift in AMP-activated protein kinase (AMPK) subunit composition in rat skeletal muscle. <i>Nutrition and Metabolism</i> , 2012, 9, 104.	3.0	18
23	Influence of ribose on adenine salvage after intense muscle contractions. <i>Journal of Applied Physiology</i> , 2001, 91, 1775-1781.	2.5	17
24	Is α -fat-induced muscle insulin resistance rapidly reversible?. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E236-E241.	3.5	13
25	Effect of LKB1 deficiency on mitochondrial content, fibre type and muscle performance in the mouse diaphragm. <i>Acta Physiologica</i> , 2011, 201, 457-466.	3.8	11
26	CXCL10 increases in human skeletal muscle following damage but is not necessary for muscle regeneration. <i>Physiological Reports</i> , 2018, 6, e13689.	1.7	11
27	Multitissue analysis of exercise and metformin on doxorubicin-induced iron dysregulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E922-E930.	3.5	11
28	Liver kinase B1 inhibits the expression of inflammation-related genes postcontraction in skeletal muscle. <i>Journal of Applied Physiology</i> , 2016, 120, 876-888.	2.5	10
29	Soy Content of Basal Diets Determines the Effects of Supplemental Selenium in Male Mice. <i>Journal of Nutrition</i> , 2011, 141, 2159-2165.	2.9	9
30	A high isoflavone diet decreases 5 α -adenosine monophosphate-activated protein kinase activation and does not correct selenium-induced elevations in fasting blood glucose in mice. <i>Nutrition Research</i> , 2014, 34, 308-317.	2.9	7
31	Preclinical characterization of the JAK/STAT inhibitor SGI-1252 on skeletal muscle function, morphology, and satellite cell content. <i>PLoS ONE</i> , 2018, 13, e0198611.	2.5	7
32	Valproic acid promotes SOD2 acetylation: a potential mechanism of valproic acid-induced oxidative stress in developing systems. <i>Free Radical Research</i> , 2021, 55, 1130-1144.	3.3	7
33	A Novel Bone Morphogenetic Protein 2 Mutant Mouse, , Displays Impaired Intracellular Handling in Skeletal Muscle. <i>BioMed Research International</i> , 2013, 2013, 1-11.	1.9	4
34	High-resolution Respirometry to Measure Mitochondrial Function of Intact Beta Cells in the Presence of Natural Compounds. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	4
35	Effects of curcumin and ursolic acid on the mitochondrial coupling efficiency and hydrogen peroxide emission of intact skeletal myoblasts. <i>Biochemical and Biophysical Research Communications</i> , 2017, 492, 368-372.	2.1	3
36	Accumulation of Skeletal Muscle T Cells and the Repeated Bout Effect in Rats. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1280-1293.	0.4	2

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37	Exercise, but Not Metformin Prevents Loss of Muscle Function Due to Doxorubicin in Mice Using an In Situ Method. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9163.	4.1	2
38	Skeletal Muscle Mitochondrial Function following a 100-km Ultramarathon. <i>Medicine and Science in Sports and Exercise</i> , 2021, Publish Ahead of Print, 2363-2373.	0.4	1
39	Skeletal Muscle Insulin Resistance in Rats Fed a High Fat Diet and Treated with Acipimox. <i>Medicine and Science in Sports and Exercise</i> , 2006, 38, S44.	0.4	0
40	Deep Tissue Heating Increases Mitochondrial Respiratory Capacity of Human Skeletal Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 456.	0.4	0
41	Curcumin Attenuates Iron Dysregulation in Human Hepatocytes Exposed to Oxidative Stress. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
42	Investigation of Skeletal Muscle Mitochondrial Function Following an Ultramarathon: A Case Study in Monozygotic Twins. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
43	Metabolic Consequences in Adenine Nucleotides Caused by Adenylate Kinase (AK1 ^{-/-}) Deficiency During Contractions. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S333.	0.4	0
44	Metabolic Consequences in Adenine Nucleotides Caused by Adenylate Kinase (AK1 ^{-/-}) Deficiency During Contractions. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, S333.	0.4	0
45	Fiber-type skeletal muscle response to dietary selenium and isoflavone supplementation in male mice. <i>FASEB Journal</i> , 2012, 26, 1086.25.	0.5	0
46	Dietary isoflavones and supplemental selenium show interactive effects on blood glucose homeostasis in male FVB mice. <i>FASEB Journal</i> , 2012, 26, 869.14.	0.5	0
47	Iron deficiency causes a shift in AMP-activated protein kinase (AMPK) catalytic subunit composition in rat skeletal muscle. <i>FASEB Journal</i> , 2012, 26, 1144.12.	0.5	0
48	The effect of iron deficiency on AMPK subunit isoform composition in skeletal muscle. <i>FASEB Journal</i> , 2013, 27, 1202.22.	0.5	0
49	Hydrogen Peroxide Causes Iron Dysregulation in C ₂ C ₁₂ Skeletal Muscle Cells. <i>FASEB Journal</i> , 2018, 32, .	0.5	0
50	Exercise or Metformin Modulates Doxorubicin Mediated Iron Dysregulation in Liver, Heart and Skeletal Muscle. <i>FASEB Journal</i> , 2018, 32, lb439.	0.5	0
51	High Fat Fed Nr4a1 Knock Out Mouse has Significant Modulation of Mitochondrial Respiration Across Various Tissues. <i>FASEB Journal</i> , 2018, 32, 719.1.	0.5	0
52	Curcumin Alters Iron Regulation in C ₂ C ₁₂ Skeletal Muscle Cells and Prevents Iron Accumulation in a Model of Elevated Oxidative Stress. <i>FASEB Journal</i> , 2018, 32, 618.14.	0.5	0
53	The Role of T Cells in Muscle Damage Protective Adaptation. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 901-901.	0.4	0
54	The Effect of Leucine and Doxorubicin Treatment on Skeletal Muscle Mitochondrial Function. <i>FASEB Journal</i> , 2022, 36, .	0.5	0

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55	The Effect of Damaging Electric Muscle Contraction on Mitochondrial Health and Function. FASEB Journal, 2022, 36, .	0.5	0
56	Effects of a novel AMP α mimicking prodrug on AMPK and mTORC1 activity in C2C12 cells. FASEB Journal, 2022, 36, .	0.5	0
57	Localized Heat Therapy Improves Mitochondrial Respiratory Capacity but Not Fat Oxidation in Human Skeletal Muscle. FASEB Journal, 2022, 36, .	0.5	0
58	In Vivo Effects of AICAR and Prodrug 39 (P39) on Anabolic Pathways Following Refeeding in Skeletal Muscle. FASEB Journal, 2022, 36, .	0.5	0