

Justin D Crane

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,896
citations

331670

21
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

5358
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibiting peripheral serotonin synthesis reduces obesity and metabolic dysfunction by promoting brown adipose tissue thermogenesis. <i>Nature Medicine</i> , 2015, 21, 166-172.	30.7	376
2	AMP-activated protein kinase (AMPK) β^2 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> , 2011, 108, 16092-16097.	7.1	357
3	Lack of Adipocyte AMPK Exacerbates Insulin Resistance and Hepatic Steatosis through Brown and Beige Adipose Tissue Function. <i>Cell Metabolism</i> , 2016, 24, 118-129.	16.2	259
4	Massage Therapy Attenuates Inflammatory Signaling After Exercise-Induced Muscle Damage. <i>Science Translational Medicine</i> , 2012, 4, 119ra13.	12.4	223
5	Emerging Roles for Serotonin in Regulating Metabolism: New Implications for an Ancient Molecule. <i>Endocrine Reviews</i> , 2019, 40, 1092-1107.	20.1	213
6	The Effect of Aging on Human Skeletal Muscle Mitochondrial and Intramyocellular Lipid Ultrastructure. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2010, 65A, 119-128.	3.6	207
7	AMPK Activation of Muscle Autophagy Prevents Fasting-Induced Hypoglycemia and Myopathy during Aging. <i>Cell Metabolism</i> , 2015, 21, 883-890.	16.2	190
8	Metformin and salicylate synergistically activate liver AMPK, inhibit lipogenesis and improve insulin sensitivity. <i>Biochemical Journal</i> , 2015, 468, 125-132.	3.7	132
9	Exercise-stimulated interleukin-15 is controlled by AMPK and regulates skin metabolism and aging. <i>Aging Cell</i> , 2015, 14, 625-634.	6.7	123
10	Fluvastatin Causes NLRP3 Inflammasome-Mediated Adipose Insulin Resistance. <i>Diabetes</i> , 2014, 63, 3742-3747.	0.6	116
11	Protein synthesis and the expression of growth-related genes are altered by running in human vastus lateralis and soleus muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R708-R714.	1.8	88
12	A standardized infrared imaging technique that specifically detects UCP1-mediated thermogenesis in vivo. <i>Molecular Metabolism</i> , 2014, 3, 490-494.	6.5	82
13	Long-term Aerobic Exercise Is Associated With Greater Muscle Strength Throughout the Life Span. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 631-638.	3.6	65
14	The unfolded protein response is triggered following a single, unaccustomed resistance-exercise bout. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R664-R669.	1.8	57
15	Salicylate (Salicylate) Uncouples Mitochondria, Improves Glucose Homeostasis, and Reduces Liver Lipids Independent of AMPK β^2 . <i>Diabetes</i> , 2016, 65, 3352-3361.	0.6	57
16	Defects in mitochondrial DNA replication and oxidative damage in muscle of mtDNA mutator mice. <i>Free Radical Biology and Medicine</i> , 2014, 75, 241-251.	2.9	53
17	FGF21 does not require adipocyte AMP-activated protein kinase (AMPK) or the phosphorylation of acetyl-CoA carboxylase (ACC) to mediate improvements in whole-body glucose homeostasis. <i>Molecular Metabolism</i> , 2017, 6, 471-481.	6.5	40
18	Effects of age and unaccustomed resistance exercise on mitochondrial transcript and protein abundance in skeletal muscle of men. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R734-R741.	1.8	36

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19	Genetic deletion of mast cell serotonin synthesis prevents the development of obesity and insulin resistance. <i>Nature Communications</i> , 2020, 11, 463.	12.8	35
20	Supplementation with α -Lipoic Acid, CoQ10, and Vitamin E Augments Running Performance and Mitochondrial Function in Female Mice. <i>PLoS ONE</i> , 2013, 8, e60722.	2.5	33
21	ELBW survivors in early adulthood have higher hepatic, pancreatic and subcutaneous fat. <i>Scientific Reports</i> , 2016, 6, 31560.	3.3	22
22	Elevated Mitochondrial Oxidative Stress Impairs Metabolic Adaptations to Exercise in Skeletal Muscle. <i>PLoS ONE</i> , 2013, 8, e81879.	2.5	21
23	Optimizing the methodology for measuring supraclavicular skin temperature using infrared thermography; implications for measuring brown adipose tissue activity in humans. <i>Scientific Reports</i> , 2017, 7, 11934.	3.3	19
24	Resveratrol and Curcumin Attenuate <i>Ex Vivo</i> Sugar-Induced Cartilage Glycation, Stiffening, Senescence, and Degeneration. <i>Cartilage</i> , 2021, 13, 1214S-1228S.	2.7	18
25	The exercise cytokine interleukin-15 rescues slow wound healing in aged mice. <i>Journal of Biological Chemistry</i> , 2019, 294, 20024-20038.	3.4	16
26	Acute, Exercise-Induced Alterations in Cytokines and Chemokines in the Blood Distinguish Physically Active and Sedentary Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 811-818.	3.6	13
27	AMPK Inhibits mTOR-Driven Keratinocyte Proliferation after Skin Damage and Stress. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2170-2177.e3.	0.7	12
28	Skeletal muscle AMPK is essential for the maintenance of FNDC5 expression. <i>Physiological Reports</i> , 2015, 3, e12343.	1.7	11
29	Effects of Creatine and Exercise on Skeletal Muscle of FRG1-Transgenic Mice. <i>Canadian Journal of Neurological Sciences</i> , 2012, 39, 225-231.	0.5	7
30	Influence of tracer selection on protein synthesis rates at rest and postexercise in multiple human muscles. <i>Metabolism: Clinical and Experimental</i> , 2011, 60, 689-697.	3.4	6
31	Spiny mice (<i>Acomys</i>) exhibit attenuated hallmarks of aging and rapid cell turnover after UV exposure in the skin epidermis. <i>PLoS ONE</i> , 2020, 15, e0241617.	2.5	5
32	Amino Acid Infusion Alters the Expression of Growth-Related Genes in Multiple Skeletal Muscles. <i>Aviation, Space, and Environmental Medicine</i> , 2013, 84, 669-674.	0.5	3
33	Age Does Not Influence Mitochondrial-Related Transcript Expression Following A Resistance-Training Bout. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 71-72.	0.4	1