Katsuhiko Funai

List of Publications by Year
in descending order

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36 papers	4,536 citations	304368 22 h-index	360668 35 g-index
40 all docs	40 docs citations	40 times ranked	8600 citing authors

#	Article	IF	Citations
1	Short-term exposure to a clinical dose of metformin increases skeletal muscle mitochondrial H2O2 emission and production in healthy, older adults: A randomized controlled trial. Experimental Gerontology, 2022, 163, 111804.	1.2	3
2	EFHD1 ablation inhibits cardiac mitoflash activation and protects cardiomyocytes from ischemia. Journal of Molecular and Cellular Cardiology, 2022, 167, 1-14.	0.9	7
3	Preclinical rodent models of physical inactivity-induced muscle insulin resistance: challenges and solutions. Journal of Applied Physiology, 2021, 130, 537-544.	1.2	9
4	Lysophospholipid acylation modulates plasma membrane lipid organization and insulin sensitivity in skeletal muscle. Journal of Clinical Investigation, 2021, 131, .	3.9	34
5	Metformin and leucine increase satellite cells and collagen remodeling during disuse and recovery in aged muscle. FASEB Journal, 2021, 35, e21862.	0.2	22
6	Low lysophosphatidylcholine induces skeletal muscle myopathy that is aggravated by highâ€fat diet feeding. FASEB Journal, 2021, 35, e21867.	0.2	16
7	Estrogen receptor-Î± in female skeletal muscle is not required for regulation of muscle insulin sensitivity and mitochondrial regulation. Molecular Metabolism, 2020, 34, 1-15.	3.0	21
8	Alternative splicing of UCP1 by non-cell-autonomous action of PEMT. Molecular Metabolism, 2020, 31, 55-66.	3.0	13
9	Neutralizing mitochondrial ROS does not rescue muscle atrophy induced by hindlimb unloading in female mice. Journal of Applied Physiology, 2020, 129, 124-132.	1.2	20
10	A chronic high-fat diet exacerbates contractile dysfunction with impaired intracellular Ca²⁺ release capacity in the skeletal muscle of aged mice. Journal of Applied Physiology, 2020, 128, 1153-1162.	1.2	26
11	Reign in the membrane: How common lipids govern mitochondrial function. Current Opinion in Cell Biology, 2020, 63, 162-173.	2.6	39
12	Absence of MyD88 from Skeletal Muscle Protects Female Mice from Inactivityâ€Induced Adiposity and Insulin Resistance. Obesity, 2020, 28, 772-782.	1.5	13
13	Pharmacological inhibition of TLR4 ameliorates muscle and liver ceramide content after disuse in previously physically active mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R503-R511.	0.9	13
14	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. Science Advances, 2019, 5, eaax8352.	4.7	66
15	Phospholipid methylation regulates muscle metabolic rate through Ca2+ transport efficiency. Nature Metabolism, 2019, 1, 876-885.	5.1	30
16	Reduced mitochondrial lipid oxidation leads to fat accumulation in myosteatosis. FASEB Journal, 2019, 33, 7863-7881.	0.2	63
17	The role of cardiolipin concentration and acyl chain composition on mitochondrial inner membrane molecular organization and function. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 1039-1052.	1.2	55
18	Autophagy in Adipose Tissue Physiology and Pathophysiology. Antioxidants and Redox Signaling, 2019, 31, 487-501.	2.5	65

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19	Peroxisome-derived lipids regulate adipose thermogenesis by mediating cold-induced mitochondrial fission. Journal of Clinical Investigation, 2019, 129, 694-711.	3.9	95
20	Hypothermia Decreases O2 Cost for Ex Vivo Contraction in Mouse Skeletal Muscle. Medicine and Science in Sports and Exercise, 2018, 50, 2015-2023.	0.2	17
21	Targeted overexpression of catalase to mitochondria does not prevent cardioskeletal myopathy in Barth syndrome. Journal of Molecular and Cellular Cardiology, 2018, 121, 94-102.	0.9	51
22	A carnosine analog mitigates metabolic disorders of obesity by reducing carbonyl stress. Journal of Clinical Investigation, 2018, 128, 5280-5293.	3.9	80
23	Greater Oxidative Capacity in Primary Myotubes from Endurance-trained Women. Medicine and Science in Sports and Exercise, 2017, 49, 2151-2157.	0.2	19
24	Looking Beyond Structure: Membrane Phospholipids of Skeletal Muscle Mitochondria. Trends in Endocrinology and Metabolism, 2016, 27, 553-562.	3.1	56
25	Skeletal Muscle Phospholipid Metabolism Regulates Insulin Sensitivity and Contractile Function. Diabetes, 2016, 65, 358-370.	0.3	92
26	Reduced efficiency of sarcolipin-dependent respiration in myocytes from humans with severe obesity. Obesity, 2015, 23, 1440-1449.	1.5	41
27	Lipogenesis mitigates dysregulated sarcoplasmic reticulum calcium uptake in muscular dystrophy. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 1530-1538.	1.2	25
28	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
29	Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice. Science, 2013, 341, 1241214.	6.0	3,006
30	Nutrient-dependent phosphorylation channels lipid synthesis to regulate PPARÎ±. Journal of Lipid Research, 2013, 54, 1848-1859.	2.0	25
31	Muscle lipogenesis balances insulin sensitivity and strength through calcium signaling. Journal of Clinical Investigation, 2013, 123, 1229-1240.	3.9	124
32	Inhibiting Adipose Tissue Lipogenesis Reprograms Thermogenesis and PPARÎ³ Activation to Decrease Diet-Induced Obesity. Cell Metabolism, 2012, 16, 189-201.	7.2	205
33	Skeletal muscle lipid flux: running water carries no poison. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E245-E251.	1.8	24
34	Exercise and Insulin. Exercise and Sport Sciences Reviews, 2009, 37, 188-195.	1.6	69
35	Inhibition of Contraction-Stimulated AMP-Activated Protein Kinase Inhibits Contraction-Stimulated Increases in PAS-TBC1D1 and Glucose Transport Without Altering PAS-AS160 in Rat Skeletal Muscle. Diabetes, 2009, 58, 1096-1104.	0.3	64
36	Contraction-stimulated glucose transport in rat skeletal muscle is sustained despite reversal of increased PAS-phosphorylation of AS160 and TBC1D1. Journal of Applied Physiology, 2008, 105, 1788-1795.	1.2	26