

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	Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice. <i>Science</i> , 2013, 341, 1241214.	6.0	3,006
2	Inhibiting Adipose Tissue Lipogenesis Reprograms Thermogenesis and PPAR β Activation to Decrease Diet-Induced Obesity. <i>Cell Metabolism</i> , 2012, 16, 189-201.	7.2	205
3	Muscle lipogenesis balances insulin sensitivity and strength through calcium signaling. <i>Journal of Clinical Investigation</i> , 2013, 123, 1229-1240.	3.9	124
4	Peroxisome-derived lipids regulate adipose thermogenesis by mediating cold-induced mitochondrial fission. <i>Journal of Clinical Investigation</i> , 2019, 129, 694-711.	3.9	95
5	Skeletal Muscle Phospholipid Metabolism Regulates Insulin Sensitivity and Contractile Function. <i>Diabetes</i> , 2016, 65, 358-370.	0.3	92
6	A carnosine analog mitigates metabolic disorders of obesity by reducing carbonyl stress. <i>Journal of Clinical Investigation</i> , 2018, 128, 5280-5293.	3.9	80
7	Exercise and Insulin. <i>Exercise and Sport Sciences Reviews</i> , 2009, 37, 188-195.	1.6	69
8	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic capacity. <i>Science Advances</i> , 2019, 5, eaax8352.	4.7	66
9	Autophagy in Adipose Tissue Physiology and Pathophysiology. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 487-501.	2.5	65
10	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. <i>Diabetes</i> , 2009, 58, 1096-1104.	0.3	64
11	Reduced mitochondrial lipid oxidation leads to fat accumulation in myosteatosis. <i>FASEB Journal</i> , 2019, 33, 7863-7881.	0.2	63
12	Looking Beyond Structure: Membrane Phospholipids of Skeletal Muscle Mitochondria. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 553-562.	3.1	56
13	The role of cardiolipin concentration and acyl chain composition on mitochondrial inner membrane molecular organization and function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1039-1052.	1.2	55
14	Targeted overexpression of catalase to mitochondria does not prevent cardioskeletal myopathy in Barth syndrome. <i>Journal of Molecular and Cellular Cardiology</i> , 2018, 121, 94-102.	0.9	51
15	Reduced efficiency of sarcolipin-dependent respiration in myocytes from humans with severe obesity. <i>Obesity</i> , 2015, 23, 1440-1449.	1.5	41
16	Reign in the membrane: How common lipids govern mitochondrial function. <i>Current Opinion in Cell Biology</i> , 2020, 63, 162-173.	2.6	39
17	Lysophospholipid acylation modulates plasma membrane lipid organization and insulin sensitivity in skeletal muscle. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	34
18	Phospholipid methylation regulates muscle metabolic rate through Ca $^{2+}$ transport efficiency. <i>Nature Metabolism</i> , 2019, 1, 876-885.	5.1	30

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19	Contraction-stimulated glucose transport in rat skeletal muscle is sustained despite reversal of increased PAS-phosphorylation of AS160 and TBC1D1. <i>Journal of Applied Physiology</i> , 2008, 105, 1788-1795.	1.2	26
20	A chronic high-fat diet exacerbates contractile dysfunction with impaired intracellular Ca ²⁺ release capacity in the skeletal muscle of aged mice. <i>Journal of Applied Physiology</i> , 2020, 128, 1153-1162.	1.2	26
21	Nutrient-dependent phosphorylation channels lipid synthesis to regulate PPAR α . <i>Journal of Lipid Research</i> , 2013, 54, 1848-1859.	2.0	25
22	Lipogenesis mitigates dysregulated sarcoplasmic reticulum calcium uptake in muscular dystrophy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 1530-1538.	1.2	25
23	Skeletal muscle lipid flux: running water carries no poison. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 301, E245-E251.	1.8	24
24	Metformin and leucine increase satellite cells and collagen remodeling during disuse and recovery in aged muscle. <i>FASEB Journal</i> , 2021, 35, e21862.	0.2	22
25	Estrogen receptor α in female skeletal muscle is not required for regulation of muscle insulin sensitivity and mitochondrial regulation. <i>Molecular Metabolism</i> , 2020, 34, 1-15.	3.0	21
26	Neutralizing mitochondrial ROS does not rescue muscle atrophy induced by hindlimb unloading in female mice. <i>Journal of Applied Physiology</i> , 2020, 129, 124-132.	1.2	20
27	Greater Oxidative Capacity in Primary Myotubes from Endurance-trained Women. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 2151-2157.	0.2	19
28	Hypothermia Decreases O ₂ Cost for Ex Vivo Contraction in Mouse Skeletal Muscle. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 2015-2023.	0.2	17
29	Low lysophosphatidylcholine induces skeletal muscle myopathy that is aggravated by high-fat diet feeding. <i>FASEB Journal</i> , 2021, 35, e21867.	0.2	16
30	Alternative splicing of UCP1 by non-cell-autonomous action of PEMT. <i>Molecular Metabolism</i> , 2020, 31, 55-66.	3.0	13
31	Absence of MyD88 from Skeletal Muscle Protects Female Mice from Inactivity-Induced Adiposity and Insulin Resistance. <i>Obesity</i> , 2020, 28, 772-782.	1.5	13
32	Pharmacological inhibition of TLR4 ameliorates muscle and liver ceramide content after disuse in previously physically active mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R503-R511.	0.9	13
33	Preclinical rodent models of physical inactivity-induced muscle insulin resistance: challenges and solutions. <i>Journal of Applied Physiology</i> , 2021, 130, 537-544.	1.2	9
34	EFHD1 ablation inhibits cardiac mitoflash activation and protects cardiomyocytes from ischemia. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 167, 1-14.	0.9	7
35	Short-term exposure to a clinical dose of metformin increases skeletal muscle mitochondrial H ₂ O ₂ emission and production in healthy, older adults: A randomized controlled trial. <i>Experimental Gerontology</i> , 2022, 163, 111804.	1.2	3
36	Peroxisomal biogenesis occurs in response to obesity and to a high lipid environment in human skeletal muscle (1159.5). <i>FASEB Journal</i> , 2014, 28, 1159.5.	0.2	0