David SebastiÃ¡n

List of Publications by Year
in descending order

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Version: 2024-02-01

50	5,302	172457	223800
papers	citations	29 h-index	46 g-index

56	56	56	8602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td	9.1	1,430
2	Mitofusin 2 (Mfn2) links mitochondrial and endoplasmic reticulum function with insulin signaling and is essential for normal glucose homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5523-5528.	7.1	544
3	Mitofusin 2 in POMC Neurons Connects ER Stress with Leptin Resistance and Energy Imbalance. Cell, 2013, 155, 172-187.	28.9	429
4	Mfn2 modulates the UPR and mitochondrial function via repression of PERK. EMBO Journal, 2013, 32, 2348-2361.	7.8	340
5	Mfn2 deficiency links ageâ€related sarcopenia and impaired autophagy to activation of an adaptive mitophagy pathway. EMBO Journal, 2016, 35, 1677-1693.	7.8	275
6	Mitochondrial Dynamics: Coupling Mitochondrial Fitness with Healthy Aging. Trends in Molecular Medicine, 2017, 23, 201-215.	6.7	223
7	Deficient Endoplasmic Reticulum-Mitochondrial Phosphatidylserine Transfer Causes Liver Disease. Cell, 2019, 177, 881-895.e17.	28.9	209
8	Mitochondrial fusion proteins: Dual regulators of morphology and metabolism. Seminars in Cell and Developmental Biology, 2010, 21, 566-574.	5.0	165
9	Mitochondrial DNA and TLR9 drive muscle inflammation upon Opa1 deficiency. EMBO Journal, 2018, 37, .	7.8	139
10	Mutant HTT (huntingtin) impairs mitophagy in a cellular model of Huntington disease. Autophagy, 2021, 17, 672-689.	9.1	109
11	Muscle-Specific IRS-1 Serâ†'Ala Transgenic Mice Are Protected From Fat-Induced Insulin Resistance in Skeletal Muscle. Diabetes, 2008, 57, 2644-2651.	0.6	102
12	Novel role of FATP1 in mitochondrial fatty acid oxidation in skeletal muscle cells. Journal of Lipid Research, 2009, 50, 1789-1799.	4.2	86
13	Re-analysis of public genetic data reveals a rare X-chromosomal variant associated with type 2 diabetes. Nature Communications, 2018, 9, 321.	12.8	85
14	Identification of New Activators of Mitochondrial Fusion Reveals a Link between Mitochondrial Morphology and Pyrimidine Metabolism. Cell Chemical Biology, 2018, 25, 268-278.e4.	5.2	84
15	Alteration of the Malonyl-CoA/Carnitine Palmitoyltransferase I Interaction in the Â-Cell Impairs Glucose-Induced Insulin Secretion. Diabetes, 2005, 54, 462-471.	0.6	75
16	Mitofusin 2 as a Driver That Controls Energy Metabolism and Insulin Signaling. Antioxidants and Redox Signaling, 2015, 22, 1020-1031.	5.4	69
17	Autophagy Exacerbates Muscle Wasting in Cancer Cachexia and Impairs Mitochondrial Function. Journal of Molecular Biology, 2019, 431, 2674-2686.	4.2	69
18	CPT I overexpression protects L6E9 muscle cells from fatty acid-induced insulin resistance. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E677-E686.	3.5	68

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19	Role of Mitochondrial Complex IV in Age-Dependent Obesity. Cell Reports, 2016, 16, 2991-3002.	6.4	65
20	Zebrafish Models for Human Acute Organophosphorus Poisoning. Scientific Reports, 2015, 5, 15591.	3.3	63
21	Circadian- and UPR-dependent control of CPEB4 mediates a translational response to counteract hepatic steatosis under ER stress. Nature Cell Biology, 2017, 19, 94-105.	10.3	59
22	Lack of Glycogenin Causes Glycogen Accumulation and Muscle Function Impairment. Cell Metabolism, 2017, 26, 256-266.e4.	16.2	59
23	Novel Effect of C75 on Carnitine Palmitoyltransferase I Activity and Palmitate Oxidation. Biochemistry, 2006, 45, 4339-4350.	2.5	49
24	Carnitine Palmitoyltransferase 1 Increases Lipolysis, UCP1 Protein Expression and Mitochondrial Activity in Brown Adipocytes. PLoS ONE, 2016, 11, e0159399.	2.5	47
25	Liver CPT1A gene therapy reduces dietâ€induced hepatic steatosis in mice and highlights potential lipid biomarkers for human NAFLD. FASEB Journal, 2020, 34, 11816-11837.	0.5	44
26	C75 is converted to C75-CoA in the hypothalamus, where it inhibits carnitine palmitoyltransferase 1 and decreases food intake and body weight. Biochemical Pharmacology, 2009, 77, 1084-1095.	4.4	40
27	Glucocorticoid Modulation of Mitochondrial Function in Hepatoma Cells Requires the Mitochondrial Fission Protein Drp1. Antioxidants and Redox Signaling, 2013, 19, 366-378.	5.4	34
28	Common Metabolic Pathways Implicated in Resistance to Chemotherapy Point to a Key Mitochondrial Role in Breast Cancer*. Molecular and Cellular Proteomics, 2019, 18, 231-244.	3.8	34
29	Reduced Î±-MSH Underlies Hypothalamic ER-Stress-Induced Hepatic Gluconeogenesis. Cell Reports, 2015, 12, 361-370.	6.4	33
30	Mitochondrial dynamics and metabolic homeostasis. Current Opinion in Physiology, 2018, 3, 34-40.	1.8	27
31	Redundant roles of the phosphatidate phosphatase family in triacylglycerol synthesis in human adipocytes. Diabetologia, 2016, 59, 1985-1994.	6.3	25
32	Fatty Acid Transport Protein 1 (FATP1) Localizes in Mitochondria in Mouse Skeletal Muscle and Regulates Lipid and Ketone Body Disposal. PLoS ONE, 2014, 9, e98109.	2.5	24
33	Mitoquinone (MitoQ) Inhibits Platelet Activation Steps by Reducing ROS Levels. International Journal of Molecular Sciences, 2020, 21, 6192.	4.1	24
34	Identification of Novel Type 2 Diabetes Candidate Genes Involved in the Crosstalk between the Mitochondrial and the Insulin Signaling Systems. PLoS Genetics, 2012, 8, e1003046.	3.5	23
35	The molecular machinery of mitochondrial fusion and fission: An opportunity for drug discovery?. Current Opinion in Drug Discovery & Development, 2009, 12, 597-606.	1.9	23
36	Self-Eating for Muscle Fitness: Autophagy in the Control of Energy Metabolism. Developmental Cell, 2020, 54, 268-281.	7.0	22

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37	When MFN2 (mitofusin 2) met autophagy: A new age for old muscles. Autophagy, 2016, 12, 2250-2251.	9.1	19
38	Coordination of mitochondrial and lysosomal homeostasis mitigates inflammation and muscle atrophy during aging. Aging Cell, 2022, 21, e13583.	6.7	19
39	Brown Adipose Tissue Bioenergetics: A New Methodological Approach. Advanced Science, 2017, 4, 1600274.	11.2	16
40	GRP94 Is Involved in the Lipid Phenotype of Brain Metastatic Cells. International Journal of Molecular Sciences, 2019, 20, 3883.	4.1	11
41	Nicotinamide Protects Against Dietâ€Induced Body Weight Gain, Increases Energy Expenditure, and Induces White Adipose Tissue Beiging. Molecular Nutrition and Food Research, 2021, 65, e2100111.	3.3	9
42	Low-density lipoprotein receptor-related protein 1 deficiency in cardiomyocytes reduces susceptibility to insulin resistance and obesity. Metabolism: Clinical and Experimental, 2020, 106, 154191.	3.4	7
43	Neuregulin 4 Downregulation Induces Insulin Resistance in 3T3-L1 Adipocytes through Inflammation and Autophagic Degradation of GLUT4 Vesicles. International Journal of Molecular Sciences, 2021, 22, 12960.	4.1	7
44	Mfn2 modulates the UPR and mitochondrial function via repression of PERK. EMBO Journal, 2014, 33, 171-171.	7.8	6
45	Mitochondrial Health in Aging and Age-Related Metabolic Disease. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-2.	4.0	6
46	Mitochondrial Dynamics: A Journey from Mitochondrial Morphology to Mitochondrial Function and Quality. , 2018, , 19-31.		1
47	THE BNIP3 TRIAD: MITOCHONDRIA, LYSOSOMES AND INFLAMMATION IN HEALTHY MUSCLE AGING. , 2022, 1, 252-255.		1
48	Bioenergetics: Brown Adipose Tissue Bioenergetics: A New Methodological Approach (Adv. Sci. 4/2017). Advanced Science, 2017, 4, .	11.2	0
49	Front Cover: Nicotinamide Protects Against Dietâ€Induced Body Weight Gain, Increases Energy Expenditure, and Induces White Adipose Tissue Beiging. Molecular Nutrition and Food Research, 2021, 65, 2170027.	3.3	0
50	The Skeletal Muscle in Metabolic Syndrome. , 2014, , 111-136.		0