

Marc Liesa Roig

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

10,890
citations

66234

42
h-index

64668

79
g-index

94
all docs

94
docs citations

94
times ranked

17827
citing authors

#	ARTICLE	IF	CITATIONS
1	ATP-consuming futile cycles as energy dissipating mechanisms to counteract obesity. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2022, 23, 121-131.	2.6	33
2	Deletion of ABCB10 in beta-cells protects from high-fat diet induced insulin resistance. <i>Molecular Metabolism</i> , 2022, 55, 101403.	3.0	0
3	ABCB10 Loss Reduces CD4 ⁺ T Cell Activation and Memory Formation. <i>Journal of Immunology</i> , 2022, 208, 328-337.	0.4	1
4	The goodies of chelated fat: iron-regulated lipid droplet biogenesis precedes and preserves mitophagy. <i>EMBO Journal</i> , 2022, 41, e111238.	3.5	2
5	CRISPR interference interrogation of COPD GWAS genes reveals the functional significance of desmoplakin in iPSC-derived alveolar epithelial cells. <i>Science Advances</i> , 2022, 8, .	4.7	6
6	Mitochondrial oxidative function in NAFLD: Friend or foe?. <i>Molecular Metabolism</i> , 2021, 50, 101134.	3.0	53
7	Isolation and functional analysis of peridroplet mitochondria from murine brown adipose tissue. <i>STAR Protocols</i> , 2021, 2, 100243.	0.5	11
8	ABCB10 exports mitochondrial biliverdin, driving metabolic maladaptation in obesity. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	27
9	Patient-specific iPSCs carrying an SFTPC mutation reveal the intrinsic alveolar epithelial dysfunction at the inception of interstitial lung disease. <i>Cell Reports</i> , 2021, 36, 109636.	2.9	48
10	Recruitment and remodeling of peridroplet mitochondria in human adipose tissue. <i>Redox Biology</i> , 2021, 46, 102087.	3.9	17
11	High-Throughput Image Analysis of Lipid-Droplet-Bound Mitochondria. <i>Methods in Molecular Biology</i> , 2021, 2276, 285-303.	0.4	2
12	Sex-specific genetic regulation of adipose mitochondria and metabolic syndrome by Ndufv2. <i>Nature Metabolism</i> , 2021, 3, 1552-1568.	5.1	32
13	Determining Basal Energy Expenditure and the Capacity of Thermogenic Adipocytes to Expend Energy in Obese Mice. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	1
14	Glucose metabolism and pyruvate carboxylase enhance glutathione synthesis and restrict oxidative stress in pancreatic islets. <i>Cell Reports</i> , 2021, 37, 110037.	2.9	21
15	Mitochondrial Proton Leak Regulated by Cyclophilin D Elevates Insulin Secretion in Islets at Nonstimulatory Glucose Levels. <i>Diabetes</i> , 2020, 69, 131-145.	0.3	26
16	Measuring Mitochondrial Respiration in Previously Frozen Biological Samples. <i>Current Protocols in Cell Biology</i> , 2020, 89, e116.	2.3	26
17	Estrogen-sensitive medial preoptic area neurons coordinate torpor in mice. <i>Nature Communications</i> , 2020, 11, 6378.	5.8	49
18	The Role of Mitochondrial Fat Oxidation in Cancer Cell Proliferation and Survival. <i>Cells</i> , 2020, 9, 2600.	1.8	38

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19	Method for live-cell super-resolution imaging of mitochondrial cristae and quantification of submitochondrial membrane potentials. <i>Methods in Cell Biology</i> , 2020, 155, 545-555.	0.5	7
20	NCLX prevents cell death during adrenergic activation of the brown adipose tissue. <i>Nature Communications</i> , 2020, 11, 3347.	5.8	31
21	Why does a mitochondrion need its individual cristae to be functionally autonomous?. <i>Molecular and Cellular Oncology</i> , 2020, 7, 1705119.	0.3	4
22	Cristae undergo continuous cycles of membrane remodelling in a MICOS-dependent manner. <i>EMBO Reports</i> , 2020, 21, e49776.	2.0	106
23	Hypothalamic oestrogen receptor alpha establishes a sexually dimorphic regulatory node of energy expenditure. <i>Nature Metabolism</i> , 2020, 2, 351-363.	5.1	61
24	The biology of lipid droplet-bound mitochondria. <i>Seminars in Cell and Developmental Biology</i> , 2020, 108, 55-64.	2.3	38
25	A novel approach to measure mitochondrial respiration in frozen biological samples. <i>EMBO Journal</i> , 2020, 39, e104073.	3.5	110
26	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. <i>EMBO Reports</i> , 2020, 21, e49634.	2.0	31
27	Quantification of cristae architecture reveals time-dependent characteristics of individual mitochondria. <i>Life Science Alliance</i> , 2020, 3, e201900620.	1.3	29
28	Sex-specific metabolic functions of adipose Lipocalin-2. <i>Molecular Metabolism</i> , 2019, 30, 30-47.	3.0	41
29	Individual cristae within the same mitochondrion display different membrane potentials and are functionally independent. <i>EMBO Journal</i> , 2019, 38, e101056.	3.5	204
30	Mitochondria Bound to Lipid Droplets: Where Mitochondrial Dynamics Regulate Lipid Storage and Utilization. <i>Cell Metabolism</i> , 2019, 29, 827-835.	7.2	179
31	To Fis or not to Fuse? This is the question!. <i>EMBO Journal</i> , 2019, 38, .	3.5	12
32	Nanoparticle-mediated lysosomal reacidification restores mitochondrial turnover and function in β^2 cells under lipotoxicity. <i>FASEB Journal</i> , 2019, 33, 4154-4165.	0.2	29
33	Mitochondrial Retrograde Signaling in Mammals Is Mediated by the Transcriptional Cofactor GPS2 via Direct Mitochondria-to-Nucleus Translocation. <i>Molecular Cell</i> , 2018, 69, 757-772.e7.	4.5	95
34	Mitochondria Bound to Lipid Droplets Have Unique Bioenergetics, Composition, and Dynamics that Support Lipid Droplet Expansion. <i>Cell Metabolism</i> , 2018, 27, 869-885.e6.	7.2	359
35	Mitochondrial DNA and TLR9 drive muscle inflammation upon Opa1 deficiency. <i>EMBO Journal</i> , 2018, 37, .	3.5	139
36	Estrogen receptor β protects pancreatic β^2 -cells from apoptosis by preserving mitochondrial function and suppressing endoplasmic reticulum stress. <i>Journal of Biological Chemistry</i> , 2018, 293, 4735-4751.	1.6	70

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37	Mechanisms of Mitochondria Assembly, Dynamics and Turnover in Health and Disease. <i>Journal of Molecular Biology</i> , 2018, 430, 4821-4822.	2.0	0
38	ABCB10 deletion in cardiomyocytes leads to mitochondrial dysfunction and early death. <i>Free Radical Biology and Medicine</i> , 2018, 128, S22.	1.3	0
39	Elamipretide Promotes Mitophagosome Formation and Prevents Its Reduction Induced by Nutrient Excess in INS1 β -cells. <i>Journal of Molecular Biology</i> , 2018, 430, 4823-4833.	2.0	14
40	Individual islet respirometry reveals functional diversity within the islet population of mice and human donors. <i>Molecular Metabolism</i> , 2018, 16, 150-159.	3.0	32
41	Mitochondrial adaptation in obesity is a complicated business. <i>EMBO Reports</i> , 2018, 19, .	2.0	0
42	Etomoxir Inhibits Macrophage Polarization by Disrupting CoA Homeostasis. <i>Cell Metabolism</i> , 2018, 28, 490-503.e7.	7.2	242
43	Mfn2 deletion in brown adipose tissue protects from insulin resistance and impairs thermogenesis. <i>EMBO Reports</i> , 2017, 18, 1123-1138.	2.0	89
44	Diluted serum from calorie-restricted animals promotes mitochondrial cell adaptations and protect against glucolipotoxicity. <i>FEBS Journal</i> , 2016, 283, 822-833.	2.2	25
45	LKB1 loss links serine metabolism to DNA methylation and tumorigenesis. <i>Nature</i> , 2016, 539, 390-395.	13.7	248
46	Mitochondrial Networking in T Cell Memory. <i>Cell</i> , 2016, 166, 9-10.	13.5	21
47	Mitochondrial Reactive Oxygen Species Mediate Cardiac Structural, Functional, and Mitochondrial Consequences of Diet-Induced Metabolic Heart Disease. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	85
48	The Extracellular Redox State Modulates Mitochondrial Function, Gluconeogenesis, and Glycogen Synthesis in Murine Hepatocytes. <i>PLoS ONE</i> , 2015, 10, e0122818.	1.1	33
49	ATP Binding and Hydrolysis Properties of ABCB10 and Their Regulation by Glutathione. <i>PLoS ONE</i> , 2015, 10, e0129772.	1.1	13
50	Emergence of a Stage-Dependent Human Liver Disease Signature with Directed Differentiation of Alpha-1 Antitrypsin-Deficient iPS Cells. <i>Stem Cell Reports</i> , 2015, 4, 873-885.	2.3	77
51	Mitochondrial remodeling in mice with cardiomyocyte-specific lipid overload. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 79, 275-283.	0.9	52
52	A REDD1/TXNIP pro-oxidant complex regulates ATG4B activity to control stress-induced autophagy and sustain exercise capacity. <i>Nature Communications</i> , 2015, 6, 7014.	5.8	157
53	High fat, high sucrose diet causes cardiac mitochondrial dysfunction due in part to oxidative post-translational modification of mitochondrial complex II. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 78, 165-173.	0.9	68
54	Conditional Knockout of Proximal Tubule Mitofusin 2 Accelerates Recovery and Improves Survival after Renal Ischemia. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1092-1102.	3.0	43

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55	Hormone-induced mitochondrial fission is utilized by brown adipocytes as an amplification pathway for energy expenditure. <i>EMBO Journal</i> , 2014, 33, n/a-n/a.	3.5	185
56	Lysosomal dysfunction and impaired autophagy underlie the pathogenesis of amyloidogenic light chain-mediated cardiotoxicity. <i>EMBO Molecular Medicine</i> , 2014, 6, 1493-1507.	3.3	106
57	Bactericidal Antibiotics Induce Mitochondrial Dysfunction and Oxidative Damage in Mammalian Cells. <i>Science Translational Medicine</i> , 2013, 5, 192ra85.	5.8	391
58	Mitochondrial Dynamics in the Regulation of Nutrient Utilization and Energy Expenditure. <i>Cell Metabolism</i> , 2013, 17, 491-506.	7.2	1,043
59	ATP-Binding Cassette B10 Regulates Early Steps of Heme Synthesis. <i>Circulation Research</i> , 2013, 113, 279-287.	2.0	50
60	Glucocorticoid Modulation of Mitochondrial Function in Hepatoma Cells Requires the Mitochondrial Fission Protein Drp1. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 366-378.	2.5	34
61	Mitochondrial dynamics regulate brown adipocyte energy expenditure. <i>FASEB Journal</i> , 2013, 27, 582.4.	0.2	0
62	The mitochondrial transporter ABC-me (ABCB10), a downstream target of GATA-1, is essential for erythropoiesis in vivo. <i>Cell Death and Differentiation</i> , 2012, 19, 1117-1126.	5.0	46
63	Defective Mitochondrial Morphology and Bioenergetic Function in Mice Lacking the Transcription Factor Yin Yang 1 in Skeletal Muscle. <i>Molecular and Cellular Biology</i> , 2012, 32, 3333-3346.	1.1	77
64	Antitelomerase Therapy Provokes ALT and Mitochondrial Adaptive Mechanisms in Cancer. <i>Cell</i> , 2012, 148, 651-663.	13.5	240
65	Mitofusin 2 (Mfn2) links mitochondrial and endoplasmic reticulum function with insulin signaling and is essential for normal glucose homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5523-5528.	3.3	544
66	Mitochondrial ABC transporters function: The role of ABCB10 (ABC-me) as a novel player in cellular handling of reactive oxygen species. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 1945-1957.	1.9	68
67	Role of Mitofusin 2 in the Renal Stress Response. <i>PLoS ONE</i> , 2012, 7, e31074.	1.1	53
68	Testosterone Plus Low-Intensity Physical Training in Late Life Improves Functional Performance, Skeletal Muscle Mitochondrial Biogenesis, and Mitochondrial Quality Control in Male Mice. <i>PLoS ONE</i> , 2012, 7, e51180.	1.1	55
69	Salen Mn Complexes are Superoxide Dismutase/Catalase Mimetics that Protect the Mitochondria. <i>Current Inorganic Chemistry</i> , 2012, 2, 325-334.	0.2	27
70	Pancreatic cancers require autophagy for tumor growth. <i>Genes and Development</i> , 2011, 25, 717-729.	2.7	1,224
71	Telomere dysfunction induces metabolic and mitochondrial compromise. <i>Nature</i> , 2011, 470, 359-365.	13.7	1,093
72	Mitochondrial Transporter ATP Binding Cassette Mitochondrial Erythroid Is a Novel Gene Required for Cardiac Recovery After Ischemia/Reperfusion. <i>Circulation</i> , 2011, 124, 806-813.	1.6	61

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73	Biophysical properties of mitochondrial fusion events in pancreatic β -cells and cardiac cells unravel potential control mechanisms of its selectivity. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 299, C477-C487.	2.1	75
74	Subjects With Early-Onset Type 2 Diabetes Show Defective Activation of the Skeletal Muscle PGC-1 α /Mitofusin-2 Regulatory Pathway in Response to Physical Activity. <i>Diabetes Care</i> , 2010, 33, 645-651.	4.3	168
75	Mitochondrial fusion proteins: Dual regulators of morphology and metabolism. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 566-574.	2.3	165
76	Mitochondrial dynamics as a bridge between mitochondrial dysfunction and insulin resistance. <i>Archives of Physiology and Biochemistry</i> , 2009, 115, 1-12.	1.0	100
77	Genes involved in mitochondrial biogenesis/function are induced in response to bilio-pancreatic diversion in morbidly obese individuals with normal glucose tolerance but not in type 2 diabetic patients. <i>Diabetologia</i> , 2009, 52, 1618-1627.	2.9	25
78	Role of mitochondrial dynamics proteins in the pathophysiology of obesity and type 2 diabetes. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 1846-1854.	1.2	179
79	Mitochondrial Dynamics in Mammalian Health and Disease. <i>Physiological Reviews</i> , 2009, 89, 799-845.	13.1	794
80	Mitochondrial Fusion Is Increased by the Nuclear Coactivator PGC-1 β . <i>PLoS ONE</i> , 2008, 3, e3613.	1.1	159
81	Role of Myotonic Dystrophy Protein Kinase (DMPK) in Glucose Homeostasis and Muscle Insulin Action. <i>PLoS ONE</i> , 2007, 2, e1134.	1.1	36
82	Evidence for a Mitochondrial Regulatory Pathway Defined by Peroxisome Proliferator-Activated Receptor- α Coactivator-1 α , Estrogen-Related Receptor- α , and Mitofusin 2. <i>Diabetes</i> , 2006, 55, 1783-1791.	0.3	320
83	The Charcot- <i>Marie-Tooth</i> type 2A gene product, Mfn2, up-regulates fuel oxidation through expression of OXPHOS system. <i>Human Molecular Genetics</i> , 2005, 14, 1405-1415.	1.4	397