

Rebeca Acin-Perez

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

9,097
citations

76196
40
h-index

85405
71
g-index

78
all docs

78
docs citations

78
times ranked

14393
citing authors

#	ARTICLE	IF	CITATIONS
1	Allotopic expression of mitochondrial-encoded genes in mammals: achieved goal, undemonstrated mechanism or impossible task?. <i>Nucleic Acids Research</i> , 2011, 39, 225-234.	6.5	1,296
2	Respiratory Active Mitochondrial Supercomplexes. <i>Molecular Cell</i> , 2008, 32, 529-539.	4.5	703
3	Supercomplex Assembly Determines Electron Flux in the Mitochondrial Electron Transport Chain. <i>Science</i> , 2013, 340, 1567-1570.	6.0	687
4	Cyclic AMP Produced inside Mitochondria Regulates Oxidative Phosphorylation. <i>Cell Metabolism</i> , 2009, 9, 265-276.	7.2	422
5	Respiratory Complex III Is Required to Maintain Complex I in Mammalian Mitochondria. <i>Molecular Cell</i> , 2004, 13, 805-815.	4.5	402
6	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
7	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016, 535, 561-565.	13.7	333
8	Differences in reactive oxygen species production explain the phenotypes associated with common mouse mitochondrial DNA variants. <i>Nature Genetics</i> , 2006, 38, 1261-1268.	9.4	301
9	Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. <i>Nature Immunology</i> , 2016, 17, 1037-1045.	7.0	259
10	The function of the respiratory supercomplexes: The plasticity model. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 444-450.	0.5	252
11	Priming of dendritic cells by DNA-containing extracellular vesicles from activated T cells through antigen-driven contacts. <i>Nature Communications</i> , 2018, 9, 2658.	5.8	242
12	Mitochondrial Respiration Controls Lysosomal Function during Inflammatory T Cell Responses. <i>Cell Metabolism</i> , 2015, 22, 485-498.	7.2	239
13	The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. <i>Cell Reports</i> , 2016, 15, 197-209.	2.9	215
14	Defective Extracellular Pyrophosphate Metabolism Promotes Vascular Calcification in a Mouse Model of Hutchinson-Gilford Progeria Syndrome That Is Ameliorated on Pyrophosphate Treatment. <i>Circulation</i> , 2013, 127, 2442-2451.	1.6	188
15	ATP-Dependent Lon Protease Controls Tumor Bioenergetics by Reprogramming Mitochondrial Activity. <i>Cell Reports</i> , 2014, 8, 542-556.	2.9	186
16	Protein Phosphorylation and Prevention of Cytochrome Oxidase Inhibition by ATP: Coupled Mechanisms of Energy Metabolism Regulation. <i>Cell Metabolism</i> , 2011, 13, 712-719.	7.2	173
17	Increased localization of APP ^{C99} in mitochondria-associated ER membranes causes mitochondrial dysfunction in Alzheimer disease. <i>EMBO Journal</i> , 2017, 36, 3356-3371.	3.5	164
18	Pink1 regulates the oxidative phosphorylation machinery via mitochondrial fission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12920-12924.	3.3	163

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19	Na ⁺ controls hypoxic signalling by the mitochondrial respiratory chain. <i>Nature</i> , 2020, 586, 287-291.	13.7	139
20	A Phosphodiesterase 2A Isoform Localized to Mitochondria Regulates Respiration. <i>Journal of Biological Chemistry</i> , 2011, 286, 30423-30432.	1.6	115
21	Identification of mitochondrial dysfunction in Hutchinson Gilford progeria syndrome through use of stable isotope labeling with amino acids in cell culture. <i>Journal of Proteomics</i> , 2013, 91, 466-477.	1.2	110
22	A novel approach to measure mitochondrial respiration in frozen biological samples. <i>EMBO Journal</i> , 2020, 39, e104073.	3.5	110
23	Mechanism of neurodegeneration of neurons with mitochondrial DNA mutations. <i>Brain</i> , 2010, 133, 797-807.	3.7	108
24	Revisiting the mouse mitochondrial DNA sequence. <i>Nucleic Acids Research</i> , 2003, 31, 5349-5355.	6.5	101
25	ROS-Triggered Phosphorylation of Complex II by F ₁ F ₀ ATPase Kinase Regulates Cellular Adaptation to Fuel Use. <i>Cell Metabolism</i> , 2014, 19, 1020-1033.	7.2	101
26	Modulation of mitochondrial protein phosphorylation by soluble adenyl cyclase ameliorates cytochrome oxidase defects. <i>EMBO Molecular Medicine</i> , 2009, 1, 392-406.	3.3	97
27	Dysfunctional Coq9 protein causes predominant encephalomyopathy associated with CoQ deficiency. <i>Human Molecular Genetics</i> , 2013, 22, 1233-1248.	1.4	87
28	ISG15 governs mitochondrial function in macrophages following vaccinia virus infection. <i>PLoS Pathogens</i> , 2017, 13, e1006651.	2.1	75
29	Control of oxidative phosphorylation by vitamin A illuminates a fundamental role in mitochondrial energy homeostasis. <i>FASEB Journal</i> , 2010, 24, 627-636.	0.2	74
30	An intragenic suppressor in the cytochrome c oxidase I gene of mouse mitochondrial DNA. <i>Human Molecular Genetics</i> , 2003, 12, 329-339.	1.4	71
31	Five Entry Points of the Mitochondrially Encoded Subunits in Mammalian Complex I Assembly. <i>Molecular and Cellular Biology</i> , 2010, 30, 3038-3047.	1.1	68
32	The Chromatin Remodeling Complex Chd4/NuRD Controls Striated Muscle Identity and Metabolic Homeostasis. <i>Cell Metabolism</i> , 2016, 23, 881-892.	7.2	68
33	Functional role of respiratory supercomplexes in mice: SCAF1 relevance and segmentation of the Q _{pool} . <i>Science Advances</i> , 2020, 6, eaba7509.	4.7	68
34	Analysis of mouse models of cytochrome c oxidase deficiency owing to mutations in Sco2. <i>Human Molecular Genetics</i> , 2010, 19, 170-180.	1.4	66
35	Ablation of the stress protease OMA1 protects against heart failure in mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	66
36	MKK6 controls T3-mediated browning of white adipose tissue. <i>Nature Communications</i> , 2017, 8, 856.	5.8	54

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37	Evolution Meets Disease: Penetrance and Functional Epistasis of Mitochondrial tRNA Mutations. <i>PLoS Genetics</i> , 2011, 7, e1001379.	1.5	51
38	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
39	Activation of Serine One-Carbon Metabolism by Calcineurin A β 1 Reduces Myocardial Hypertrophy and Improves Ventricular Function. <i>Journal of the American College of Cardiology</i> , 2018, 71, 654-667.	1.2	45
40	Regulation of intermediary metabolism by the PKC δ signalosome in mitochondria. <i>FASEB Journal</i> , 2010, 24, 5033-5042.	0.2	44
41	Mitochondrial DNA mutations affect calcium handling in differentiated neurons. <i>Brain</i> , 2010, 133, 787-796.	3.7	43
42	How Mitochondrial Metabolism Contributes to Macrophage Phenotype and Functions. <i>Journal of Molecular Biology</i> , 2018, 430, 3906-3921.	2.0	41
43	Sex-specific metabolic functions of adipose Lipocalin-2. <i>Molecular Metabolism</i> , 2019, 30, 30-47.	3.0	41
44	Fgr kinase is required for proinflammatory macrophage activation during diet-induced obesity. <i>Nature Metabolism</i> , 2020, 2, 974-988.	5.1	40
45	Are Zinc-Finger Domains of Protein Kinase C Dynamic Structures That Unfold by Lipid or Redox Activation?. <i>Antioxidants and Redox Signaling</i> , 2011, 14, 757-766.	2.5	39
46	Laminar shear stress regulates mitochondrial dynamics, bioenergetics responses and PRX3 activation in endothelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2403-2413.	1.9	34
47	PKM2 regulates endothelial cell junction dynamics and angiogenesis via ATP production. <i>Scientific Reports</i> , 2019, 9, 15022.	1.6	34
48	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
49	Sex-specific genetic regulation of adipose mitochondria and metabolic syndrome by Ndufv2. <i>Nature Metabolism</i> , 2021, 3, 1552-1568.	5.1	32
50	Cell identity and nucleo-mitochondrial genetic context modulate OXPHOS performance and determine somatic heteroplasmy dynamics. <i>Science Advances</i> , 2020, 6, eaba5345.	4.7	31
51	NCLX prevents cell death during adrenergic activation of the brown adipose tissue. <i>Nature Communications</i> , 2020, 11, 3347.	5.8	31
52	Blocking mitochondrial pyruvate import in brown adipocytes induces energy wasting via lipid cycling. <i>EMBO Reports</i> , 2020, 21, e49634.	2.0	31
53	p38 β blocks brown adipose tissue thermogenesis through p38 β inhibition. <i>PLoS Biology</i> , 2018, 16, e2004455.	2.6	30
54	A new non-canonical pathway of G β q protein regulating mitochondrial dynamics and bioenergetics. <i>Cellular Signalling</i> , 2014, 26, 1135-1146.	1.7	28

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55	Measuring Mitochondrial Respiration in Previously Frozen Biological Samples. <i>Current Protocols in Cell Biology</i> , 2020, 89, e116.	2.3	26
56	Two protein kinase C isoforms, $\hat{\nu}$ and $\hat{\mu}$, regulate energy homeostasis in mitochondria by transmitting opposing signals to the pyruvate dehydrogenase complex. <i>FASEB Journal</i> , 2012, 26, 3537-3549.	0.2	24
57	Ellagic Acid and Its Microbial Metabolite Urolithin A Alleviate Diet-Induced Insulin Resistance in Mice. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000091.	1.5	23
58	An EMMPRIN/ $\hat{\beta}$ -catenin/Nm23 complex drives ATP production and actomyosin contractility at endothelial junctions. <i>Journal of Cell Science</i> , 2014, 127, 3768-81.	1.2	22
59	Granzyme B of cytotoxic T cells induces extramitochondrial reactive oxygen species production via caspase-dependent NADPH oxidase activation. <i>Immunology and Cell Biology</i> , 2010, 88, 545-554.	1.0	21
60	Recruitment and remodeling of peridroplet mitochondria in human adipose tissue. <i>Redox Biology</i> , 2021, 46, 102087.	3.9	17
61	Increased Learning and Brain Long-Term Potentiation in Aged Mice Lacking DNA Polymerase $\hat{\nu}$. <i>PLoS ONE</i> , 2013, 8, e53243.	1.1	17
62	Hiding in plain sight: Uncovering a new function of vitamin A in redox signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 241-247.	1.2	16
63	Regulation of intermediary metabolism by the PKC $\hat{\nu}$ signalosome in mitochondria. <i>FASEB Journal</i> , 2010, 24, 5033-5042.	0.2	14
64	Utilization of Human Samples for Assessment of Mitochondrial Bioenergetics: Gold Standards, Limitations, and Future Perspectives. <i>Life</i> , 2021, 11, 949.	1.1	13
65	A Thermogenic-Like Brown Adipose Tissue Phenotype Is Dispensable for Enhanced Glucose Tolerance in Female Mice. <i>Diabetes</i> , 2019, 68, 1717-1729.	0.3	12
66	Isolation and functional analysis of peridroplet mitochondria from murine brown adipose tissue. <i>STAR Protocols</i> , 2021, 2, 100243.	0.5	11
67	Heteroplasmy of Wild-Type Mitochondrial DNA Variants in Mice Causes Metabolic Heart Disease With Pulmonary Hypertension and Frailty. <i>Circulation</i> , 2022, 145, 1084-1101.	1.6	10
68	Analyzing electron transport chain supercomplexes. <i>Methods in Cell Biology</i> , 2020, 155, 181-197.	0.5	8
69	p38 $\hat{\nu}$ and p38 $\hat{\mu}$ regulate postnatal cardiac metabolism through glycogen synthase 1. <i>PLoS Biology</i> , 2021, 19, e3001447.	2.6	8
70	Mitochondrial Health in Aging and Age-Related Metabolic Disease. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-2.	1.9	6
71	Reply to "Reactive oxygen species and the segregation of mtDNA sequence variants". <i>Nature Genetics</i> , 2007, 39, 572-572.	9.4	0
72	ATPases and Mitochondrial Supercomplexes. , 2015, , 61-80.		0