Francisca Diaz

List of Publications by Year
in descending order

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50 papers	4,502 citations	159585 30 h-index	182427 51 g-index
54 all docs	54 docs citations	54 times ranked	7278 citing authors

#	Article	IF	Citations
1	Glycolytic oligodendrocytes maintain myelin and long-term axonal integrity. Nature, 2012, 485, 517-521.	27.8	1,120
2	The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. Cell Reports, 2016, 15, 197-209.	6.4	215
3	Cytochrome c Oxidase Is Required for the Assembly/Stability of Respiratory Complex I in Mouse Fibroblasts. Molecular and Cellular Biology, 2006, 26, 4872-4881.	2.3	213
4	Evaluation of the Mitochondrial Respiratory Chain and Oxidative Phosphorylation System Using Polarography and Spectrophotometric Enzyme Assays. Current Protocols in Human Genetics, 2009, 63, Unit19.3.	3.5	178
5	Cytochrome c oxidase deficiency in neurons decreases both oxidative stress and amyloid formation in a mouse model of Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14163-14168.	7.1	160
6	Mice lacking COX10 in skeletal muscle recapitulate the phenotype of progressive mitochondrial myopathies associated with cytochrome c oxidase deficiency. Human Molecular Genetics, 2005, 14, 2737-2748.	2.9	145
7	Human mitochondrial DNA with large deletions repopulates organelles faster than full-length genomes under relaxed copy number control. Nucleic Acids Research, 2002, 30, 4626-4633.	14.5	139
8	An out-of-frame cytochromeb gene deletion from a patient with parkinsonism is associated with impaired complex III assembly and an increase in free radical production. Annals of Neurology, 2000, 48, 774-781.	5.3	126
9	Cytochrome c Oxidase Activity Is a Metabolic Checkpoint that Regulates Cell Fate Decisions During T Cell Activation and Differentiation. Cell Metabolism, 2017, 25, 1254-1268.e7.	16.2	125
10	Mitochondrial biogenesis and turnover. Cell Calcium, 2008, 44, 24-35.	2.4	118
11	Cytochrome c oxidase deficiency: Patients and animal models. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 100-110.	3.8	113
12	Cells Lacking Rieske Iron-Sulfur Protein Have a Reactive Oxygen Species-Associated Decrease in Respiratory Complexes I and IV. Molecular and Cellular Biology, 2012, 32, 415-429.	2.3	107
13	Respiratory supercomplexes act as a platform for complex <scp>III</scp> â€mediated maturation of human mitochondrial complexes I and <scp>IV</scp>. EMBO Journal, 2020, 39, e102817.	7.8	102
14	PGC-1Î±/Î² induced expression partially compensates for respiratory chain defects in cells from patients with mitochondrial disorders. Human Molecular Genetics, 2009, 18, 1805-1812.	2.9	99
15	Respiration-Deficient Astrocytes Survive As Glycolytic CellsIn Vivo. Journal of Neuroscience, 2017, 37, 4231-4242.	3.6	97
16	Enhanced Transcriptional Activity and Mitochondrial Localization of STAT3 Co-induce Axon Regrowth in the Adult Central Nervous System. Cell Reports, 2016, 15, 398-410.	6.4	91
17	A defect in the mitochondrial complex III, but not complex IV, triggers early ROS-dependent damage in defined brain regions. Human Molecular Genetics, 2012, 21, 5066-5077.	2.9	81
18	Endurance exercise is protective for mice with mitochondrial myopathy. Journal of Applied Physiology, 2009, 106, 1712-1719.	2.5	76

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19	ATAD3 controls mitochondrial cristae structure, influencing mtDNA replication and cholesterol levels in muscle. Journal of Cell Science, 2018, 131, .	2.0	68
20	Impaired mitophagy links mitochondrial disease to epithelial stress in methylmalonyl-CoA mutase deficiency. Nature Communications, 2020, 11, 970.	12.8	65
21	Pioglitazone ameliorates the phenotype of a novel Parkinsonâ€™s disease mouse model by reducing neuroinflammation. Molecular Neurodegeneration, 2016, 11, 25.	10.8	57
22	Overexpression of <scp>PGC</scp>â€1Î± in aging muscle enhances a subset of youngâ€like molecular patterns. Aging Cell, 2018, 17, e12707.	6.7	57
23	Role of Cytochrome c in Apoptosis: Increased Sensitivity to Tumor Necrosis Factor Alpha Is Associated with Respiratory Defects but Not with Lack of Cytochrome c Release. Molecular and Cellular Biology, 2007, 27, 1771-1783.	2.3	54
24	Mitochondrial disorders caused by mutations in respiratory chain assembly factors. Seminars in Fetal and Neonatal Medicine, 2011, 16, 197-204.	2.3	51
25	Photobiomodulation enhancement of cell proliferation at 660â€¯nm does not require cytochrome c oxidase. Journal of Photochemistry and Photobiology B: Biology, 2019, 194, 71-75.	3.8	51
26	Evaluation of the Mitochondrial Respiratory Chain and Oxidative Phosphorylation System Using Blue Native Gel Electrophoresis. Current Protocols in Human Genetics, 2009, 63, Unit19.4.	3.5	49
27	The Mitochondrial Metallochaperone SCO1 Is Required to Sustain Expression of the High-Affinity Copper Transporter CTR1 and Preserve Copper Homeostasis. Cell Reports, 2015, 10, 933-943.	6.4	37
28	Mitochondrial Diseases Part I: Mouse models of OXPHOS deficiencies caused by defects in respiratory complex subunits or assembly factors. Mitochondrion, 2015, 21, 76-91.	3.4	36
29	ATAD3A has a scaffolding role regulating mitochondria inner membrane structure and protein assembly. Cell Reports, 2021, 37, 110139.	6.4	34
30	Mouse models of oxidative phosphorylation defects: Powerful tools to study the pathobiology of mitochondrial diseases. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 171-180.	4.1	33
31	Partial complex I deficiency due to the CNS conditional ablation of Ndufa5 results in a mild chronic encephalopathy but no increase in oxidative damage. Human Molecular Genetics, 2014, 23, 1399-1412.	2.9	33
32	Myopathy reversion in mice after restauration of mitochondrial complex I. EMBO Molecular Medicine, 2020, 12, e10674.	6.9	29
33	Mitochondrial Diseases Part II: Mouse models of OXPHOS deficiencies caused by defects in regulatory factors and other components required for mitochondrial function. Mitochondrion, 2015, 22, 96-118.	3.4	23
34	Sustained AMPK activation improves muscle function in a mitochondrial myopathy mouse model by promoting muscle fiber regeneration. Human Molecular Genetics, 2016, 25, 3178-3191.	2.9	23
35	GSNOR Deficiency EnhancesIn SituSkeletal Muscle Strength, Fatigue Resistance, and RyR1 S-Nitrosylation Without Impacting Mitochondrial Content and Activity. Antioxidants and Redox Signaling, 2017, 26, 165-181.	5.4	18
36	The Organization of Mitochondrial Supercomplexes is Modulated by Oxidative Stress In Vivo in Mouse Models of Mitochondrial Encephalopathy. International Journal of Molecular Sciences, 2018, 19, 1582.	4.1	16

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37	Periodic Estrogen Receptor-Beta Activation: A Novel Approach to Prevent Ischemic Brain Damage. Neurochemical Research, 2015, 40, 2009-2017.	3.3	15
38	Cardiomyopathic mutations in essential light chain reveal mechanisms regulating the super relaxed state of myosin. Journal of General Physiology, 2021, 153, .	1.9	14
39	Simultaneous nicotine and oral contraceptive exposure alters brain energy metabolism and exacerbates ischemic stroke injury in female rats. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 793-804.	4.3	13
40	Oral Contraceptives and Nicotine Synergistically Exacerbate Cerebral Ischemic Injury in the Female Brain. Translational Stroke Research, 2013, 4, 402-412.	4.2	11
41	Mitochondrial Diseases Part III: Therapeutic interventions in mouse models of OXPHOS deficiencies. Mitochondrion, 2015, 23, 71-80.	3.4	10
42	Ablation of Cytochrome c in Adult Forebrain Neurons Impairs Oxidative Phosphorylation Without Detectable Apoptosis. Molecular Neurobiology, 2019, 56, 3722-3735.	4.0	9
43	A 3â€² UTR Modification of the Mitochondrial Rieske Iron Sulfur Protein in Mice Produces a Specific Skin Pigmentation Phenotype. Journal of Investigative Dermatology, 2008, 128, 2343-2345.	0.7	8
44	Nicotine Exposure Along with Oral Contraceptive Treatment in Female Rats Exacerbates Post-cerebral Ischemic Hypoperfusion Potentially via Altered Histamine Metabolism. Translational Stroke Research, 2021, 12, 817-828.	4.2	8
45	Mitochondrial disease disrupts hepatic allostasis and lowers the threshold for immune-mediated liver toxicity. Molecular Metabolism, 2020, 37, 100981.	6.5	8
46	Metformin delays neurological symptom onset in a mouse model of neuronal complex I deficiency. JCI Insight, 2020, 5, .	5.0	8
47	Hypoxia Promotes Mitochondrial Complex I Abundance via HIF-1Î± in Complex III and Complex IV Deficient Cells. Cells, 2020, 9, 2197.	4.1	6
48	An outâ€ofâ€frame cytochrome b gene deletion from a patient with parkinsonism is associated with impaired complex III assembly and an increase in free radical production. Annals of Neurology, 2000, 48, 774-781.	5.3	2
49	Methods and models for functional studies on mtDNA mutations. , 2020, , 305-349.		1
50	Enhanced glycolysis and GSK3 inactivation promote brain metabolic adaptations following neuronal mitochondrial stress. Human Molecular Genetics, 2021, , .	2.9	0