

Patricio Fernández-Silva

List of Publications by Year in descending order

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147801

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168389

53
g-index

56
all docs

56
docs citations

56
times ranked

12393
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue specificity of energy metabolism in mitochondria. , 2021, , 3-60.		3
2	DNA polymerase gamma mutations that impair holoenzyme stability cause catalytic subunit depletion. Nucleic Acids Research, 2021, 49, 5230-5248.	14.5	15
3	Mitochondrial AIF loss causes metabolic reprogramming, caspase-independent cell death blockade, embryonic lethality, and perinatal hydrocephalus. Molecular Metabolism, 2020, 40, 101027.	6.5	26
4	Mutations in the ND2 Subunit of Mitochondrial Complex I Are Sufficient to Confer Increased Tumorigenic and Metastatic Potential to Cancer Cells. Cancers, 2019, 11, 1027.	3.7	18
5	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. Nature, 2016, 535, 561-565.	27.8	333
6	The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. Cell Reports, 2016, 15, 197-209.	6.4	215
7	Adjusting MtDNA Quantification in Whole Blood for Peripheral Blood Platelet and Leukocyte Counts. PLoS ONE, 2016, 11, e0163770.	2.5	68
8	Role of γ -Pyrroline-5-Carboxylate Dehydrogenase Supports Mitochondrial Metabolism and Host-Cell Invasion of Trypanosoma cruzi. Journal of Biological Chemistry, 2015, 290, 7767-7790.	3.4	44
9	ROS-Triggered Phosphorylation of Complex II by Fgr Kinase Regulates Cellular Adaptation to Fuel Use. Cell Metabolism, 2014, 19, 1020-1033.	16.2	101
10	Structural Insights into the Coenzyme Mediated Monomer \rightleftharpoons Dimer Transition of the Pro-Apoptotic Apoptosis Inducing Factor. Biochemistry, 2014, 53, 4204-4215.	2.5	52
11	Supercomplex Assembly Determines Electron Flux in the Mitochondrial Electron Transport Chain. Science, 2013, 340, 1567-1570.	12.6	687
12	Mitochondrial Cristae Shape Determines Respiratory Chain Supercomplexes Assembly and Respiratory Efficiency. Cell, 2013, 155, 160-171.	28.9	955
13	Length variation in the mouse mitochondrial $\langle \text{scp} \rangle \text{tRNA}^{\text{A}} \langle / \text{scp} \rangle \langle \text{sup} \rangle \text{rg} \langle / \text{sup} \rangle$ DHU loop size promotes oxidative phosphorylation functional differences. FEBS Journal, 2013, 280, 4983-4998.	4.7	8
14	Tissue-specific differences in mitochondrial activity and biogenesis. Mitochondrion, 2011, 11, 207-213.	3.4	139
15	A genome-wide shRNA screen for new OxPhos related genes. Mitochondrion, 2011, 11, 467-475.	3.4	14
16	Allotopic expression of mitochondrial-encoded genes in mammals: achieved goal, undemonstrated mechanism or impossible task?. Nucleic Acids Research, 2011, 39, 225-234.	14.5	1,296
17	Evolution Meets Disease: Penetrance and Functional Epistasis of Mitochondrial tRNA Mutations. PLoS Genetics, 2011, 7, e1001379.	3.5	51
18	Five Entry Points of the Mitochondrially Encoded Subunits in Mammalian Complex I Assembly. Molecular and Cellular Biology, 2010, 30, 3038-3047.	2.3	68

#	ARTICLE	IF	CITATIONS
19	Isolation of mitochondria for biogenetical studies: An update. <i>Mitochondrion</i> , 2010, 10, 253-262.	3.4	158
20	Mitochondrial gene expression is regulated at multiple levels and differentially in the heart and liver by thyroid hormones. <i>Current Genetics</i> , 2008, 54, 13-22.	1.7	39
21	Respiratory Active Mitochondrial Supercomplexes. <i>Molecular Cell</i> , 2008, 32, 529-539.	9.7	703
22	Restoration of electron transport without proton pumping in mammalian mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18735-18739.	7.1	75
23	Cisplatin-mediated impairment of mitochondrial DNA metabolism inversely correlates with glutathione levels. <i>Biochemical Journal</i> , 2008, 414, 93-102.	3.7	50
24	Functional Genetic Analysis of the Mammalian Mitochondrial DNA Encoded Peptides. <i>Methods in Molecular Biology</i> , 2008, 457, 379-390.	0.9	11
25	In Vivo and In Organello Analyses of Mitochondrial Translation. <i>Methods in Cell Biology</i> , 2007, 80, 571-588.	1.1	45
26	Reply to "Reactive oxygen species and the segregation of mtDNA sequence variants". <i>Nature Genetics</i> , 2007, 39, 572-572.	21.4	0
27	Differences in reactive oxygen species production explain the phenotypes associated with common mouse mitochondrial DNA variants. <i>Nature Genetics</i> , 2006, 38, 1261-1268.	21.4	301
28	In vitro transcription termination activity of the <i>Drosophila</i> mitochondrial DNA-binding protein DmTTF. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 357-362.	2.1	21
29	Respiratory Complex III Is Required to Maintain Complex I in Mammalian Mitochondria. <i>Molecular Cell</i> , 2004, 13, 805-815.	9.7	402
30	Replication and Transcription of Mammalian Mitochondrial Dna. <i>Experimental Physiology</i> , 2003, 88, 41-56.	2.0	333
31	An intragenic suppressor in the cytochrome c oxidase I gene of mouse mitochondrial DNA. <i>Human Molecular Genetics</i> , 2003, 12, 329-339.	2.9	71
32	Revisiting the mouse mitochondrial DNA sequence. <i>Nucleic Acids Research</i> , 2003, 31, 5349-5355.	14.5	101
33	The thankless task of playing genetics with mammalian mitochondrial DNA: a 30-year review. <i>Mitochondrion</i> , 2002, 2, 3-25.	3.4	7
34	Sea urchin mtDBP is a two-faced transcription termination factor with a biased polarity depending on the RNA polymerase. <i>Nucleic Acids Research</i> , 2001, 29, 4736-4743.	14.5	30
35	The Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke-like Episode Syndrome-associated Human Mitochondrial tRNA ^{Leu} (UUR) Mutation Causes Aminoacylation Deficiency and Concomitant Reduced Association of mRNA with Ribosomes. <i>Journal of Biological Chemistry</i> , 2000, 275, 19198-19209.	3.4	176
36	Iron(II) induces changes in the conformation of mammalian mitochondrial DNA resulting in a reduction of its transcriptional rate. <i>FEBS Letters</i> , 2000, 480, 161-164.	2.8	12

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37	Autonomous Regulation in Mammalian Mitochondrial DNA Transcription. <i>Biological Chemistry</i> , 1999, 380, 737-47.	2.5	49
38	Spastic Paraplegia and OXPHOS Impairment Caused by Mutations in Paraplegin, a Nuclear-Encoded Mitochondrial Metalloprotease. <i>Cell</i> , 1998, 93, 973-983.	28.9	784
39	Identification and Characterization of Human cDNAs Specific to BCS1, PET112, SCO1, COX15, and COX11, Five Genes Involved in the Formation and Function of the Mitochondrial Respiratory Chain. <i>Genomics</i> , 1998, 54, 494-504.	2.9	144
40	Disorders of mitochondria and related metabolism. <i>Current Opinion in Neurology</i> , 1997, 10, 160-167.	3.6	18
41	Functional Analysis of in Vivo and in Organello Footprinting of HeLa Cell Mitochondrial DNA in Relationship to ATP and Ethidium Bromide Effects on Transcription. <i>Journal of Biological Chemistry</i> , 1997, 272, 18896-18904.	3.4	33
42	The human mitochondrial transcription termination factor (mTERF) is a multizipper protein but binds to DNA as a monomer, with evidence pointing to intramolecular leucine zipper interactions. <i>EMBO Journal</i> , 1997, 16, 1066-1079.	7.8	152
43	[15] Isolation and assay of mitochondrial transcription termination factor from human cells. <i>Methods in Enzymology</i> , 1996, 264, 158-173.	1.0	12
44	[12] Mitochondrial DNA transcription initiation and termination using mitochondrial lysates from cultured human cells. <i>Methods in Enzymology</i> , 1996, 264, 129-139.	1.0	16
45	[1] In vivo footprinting of human mitochondrial DNA in cultured cell systems. <i>Methods in Enzymology</i> , 1996, 264, 3-11.	1.0	3
46	The Synthesis of mRNA in Isolated Mitochondria can be Maintained for Several Hours and is Inhibited by High Levels of ATP. <i>FEBS Journal</i> , 1996, 237, 601-610.	0.2	61
47	RNA synthesis in isolated mitochondria from brain cortex, cerebellum and stem: Evidence of different transcriptional rates. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 1951-1956.	0.5	9
48	Specific increase of a mitochondrial RNA transcript in chronic ethanol-fed rats. <i>FEBS Letters</i> , 1992, 304, 285-288.	2.8	14
49	Molecular characterization and cloning of sheep mitochondrial DNA. <i>Current Genetics</i> , 1992, 21, 235-240.	1.7	6
50	Reduced synthesis of mtRNA in isolated mitochondria of senescent rat brain. <i>Biochemical and Biophysical Research Communications</i> , 1991, 176, 645-653.	2.1	76
51	Estimation of the chloramphenicol and cycloheximide inhibition of protein synthesis in brain cholinergic synaptosomes. <i>Brain Research</i> , 1991, 543, 351-353.	2.2	3
52	Acetyl-L-carnitine increases cytochrome oxidase subunit I mRNA content in hypothyroid rat liver. <i>FEBS Letters</i> , 1990, 277, 191-193.	2.8	17
53	Analysis of polyadenylated RNA from brain synaptosomes and mitochondria. <i>Neurochemical Research</i> , 1990, 15, 711-717.	3.3	10