

# Patricio Fernández-Silva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1902875/publications.pdf>

Version: 2024-02-01

53  
papers

8,039  
citations

147801

31  
h-index

168389

53  
g-index

56  
all docs

56  
docs citations

56  
times ranked

12393  
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.	14.5	1,296
2	Mitochondrial Cristae Shape Determines Respiratory Chain Supercomplexes Assembly and Respiratory Efficiency. <i>Cell</i> , 2013, 155, 160-171.	28.9	955
3	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
4	Respiratory Active Mitochondrial Supercomplexes. <i>Molecular Cell</i> , 2008, 32, 529-539.	9.7	703
5	Supercomplex Assembly Determines Electron Flux in the Mitochondrial Electron Transport Chain. <i>Science</i> , 2013, 340, 1567-1570.	12.6	687
6	Respiratory Complex III Is Required to Maintain Complex I in Mammalian Mitochondria. <i>Molecular Cell</i> , 2004, 13, 805-815.	9.7	402
7	Replication and Transcription of Mammalian Mitochondrial Dna. <i>Experimental Physiology</i> , 2003, 88, 41-56.	2.0	333
8	Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. <i>Nature</i> , 2016, 535, 561-565.	27.8	333
9	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
10	The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. <i>Cell Reports</i> , 2016, 15, 197-209.	6.4	215
11	The Mitochondrial Myopathy, Encephalopathy, Lactic Acidosis, and Stroke-like Episode Syndrome-associated Human Mitochondrial tRNA <sup>Leu</sup> (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
12	Isolation of mitochondria for biogenetical studies: An update. <i>Mitochondrion</i> , 2010, 10, 253-262.	3.4	158
13	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
14	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
15	Tissue-specific differences in mitochondrial activity and biogenesis. <i>Mitochondrion</i> , 2011, 11, 207-213.	3.4	139
16	Revisiting the mouse mitochondrial DNA sequence. <i>Nucleic Acids Research</i> , 2003, 31, 5349-5355.	14.5	101
17	ROS-Triggered Phosphorylation of Complex II by Fgr Kinase Regulates Cellular Adaptation to Fuel Use. <i>Cell Metabolism</i> , 2014, 19, 1020-1033.	16.2	101
18	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

#	ARTICLE	IF	CITATIONS
19	Restoration of electron transport without proton pumping in mammalian mitochondria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18735-18739.	7.1	75
20	An intragenic suppressor in the cytochrome c oxidase I gene of mouse mitochondrial DNA. Human Molecular Genetics, 2003, 12, 329-339.	2.9	71
21	Five Entry Points of the Mitochondrially Encoded Subunits in Mammalian Complex I Assembly. Molecular and Cellular Biology, 2010, 30, 3038-3047.	2.3	68
22	Adjusting MtDNA Quantification in Whole Blood for Peripheral Blood Platelet and Leukocyte Counts. PLoS ONE, 2016, 11, e0163770.	2.5	68
23	The Synthesis of mRNA in Isolated Mitochondria can be Maintained for Several Hours and is Inhibited by High Levels of ATP. FEBS Journal, 1996, 237, 601-610.	0.2	61
24	Structural Insights into the Coenzyme Mediated Monomer→Dimer Transition of the Pro-Apoptotic Apoptosis Inducing Factor. Biochemistry, 2014, 53, 4204-4215.	2.5	52
25	Evolution Meets Disease: Penetrance and Functional Epistasis of Mitochondrial tRNA Mutations. PLoS Genetics, 2011, 7, e1001379.	3.5	51
26	Cisplatin-mediated impairment of mitochondrial DNA metabolism inversely correlates with glutathione levels. Biochemical Journal, 2008, 414, 93-102.	3.7	50
27	Autonomous Regulation in Mammalian Mitochondrial DNA Transcription. Biological Chemistry, 1999, 380, 737-47.	2.5	49
28	In Vivo and In Organello Analyses of Mitochondrial Translation. Methods in Cell Biology, 2007, 80, 571-588.	1.1	45
29	Role of $\beta$ -1-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
30	Mitochondrial gene expression is regulated at multiple levels and differentially in the heart and liver by thyroid hormones. Current Genetics, 2008, 54, 13-22.	1.7	39
31	Functional Analysis of in Vivo and in Organello Footprinting of HeLa Cell Mitochondrial DNA in Relationship to ATP and Ethidium Bromide Effects on Transcription. Journal of Biological Chemistry, 1997, 272, 18896-18904.	3.4	33
32	Sea urchin mtDBP is a two-faced transcription termination factor with a biased polarity depending on the RNA polymerase. Nucleic Acids Research, 2001, 29, 4736-4743.	14.5	30
33	Mitochondrial AIF loss causes metabolic reprogramming, caspase-independent cell death blockade, embryonic lethality, and perinatal hydrocephalus. Molecular Metabolism, 2020, 40, 101027.	6.5	26
34	In vitro transcription termination activity of the Drosophila mitochondrial DNA-binding protein DmTTF. Biochemical and Biophysical Research Communications, 2005, 331, 357-362.	2.1	21
35	Disorders of mitochondria and related metabolism. Current Opinion in Neurology, 1997, 10, 160-167.	3.6	18
36	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

#	ARTICLE	IF	CITATIONS
37	Acetyl-L-carnitine increases cytochrome oxidase subunit I mRNA content in hypothyroid rat liver. FEBS Letters, 1990, 277, 191-193.	2.8	17
38	[12] Mitochondrial DNA transcription initiation and termination using mitochondrial lysates from cultured human cells. Methods in Enzymology, 1996, 264, 129-139.	1.0	16
39	DNA polymerase gamma mutations that impair holoenzyme stability cause catalytic subunit depletion. Nucleic Acids Research, 2021, 49, 5230-5248.	14.5	15
40	Specific increase of a mitochondrial RNA transcript in chronic ethanol-fed rats. FEBS Letters, 1992, 304, 285-288.	2.8	14
41	A genome-wide shRNA screen for new OxPhos related genes. Mitochondrion, 2011, 11, 467-475.	3.4	14
42	[15] Isolation and assay of mitochondrial transcription termination factor from human cells. Methods in Enzymology, 1996, 264, 158-173.	1.0	12
43	Iron(II) induces changes in the conformation of mammalian mitochondrial DNA resulting in a reduction of its transcriptional rate. FEBS Letters, 2000, 480, 161-164.	2.8	12
44	Functional Genetic Analysis of the Mammalian Mitochondrial DNA Encoded Peptides. Methods in Molecular Biology, 2008, 457, 379-390.	0.9	11
45	Analysis of polyadenylated RNA from brain synaptosomes and mitochondria. Neurochemical Research, 1990, 15, 711-717.	3.3	10
46	RNA synthesis in isolated mitochondria from brain cortex, cerebellum and stem: Evidence of different transcriptional rates. International Journal of Biochemistry & Cell Biology, 1993, 25, 1951-1956.	0.5	9
47	Length variation in the mouse mitochondrial <sup>A</sup> tRNA <sup>Arg</sup> DHU loop size promotes oxidative phosphorylation functional differences. FEBS Journal, 2013, 280, 4983-4998.	4.7	8
48	The thankless task of playing genetics with mammalian mitochondrial DNA: a 30-year review. Mitochondrion, 2002, 2, 3-25.	3.4	7
49	Molecular characterization and cloning of sheep mitochondrial DNA. Current Genetics, 1992, 21, 235-240.	1.7	6
50	Estimation of the chloramphenicol and cycloheximide inhibition of protein synthesis in brain cholinergic synaptosomes. Brain Research, 1991, 543, 351-353.	2.2	3
51	[1] In vivo footprinting of human mitochondrial DNA in cultured cell systems. Methods in Enzymology, 1996, 264, 3-11.	1.0	3
52	Tissue specificity of energy metabolism in mitochondria. , 2021, , 3-60.		3
53	Reply to "Reactive oxygen species and the segregation of mtDNA sequence variants". Nature Genetics, 2007, 39, 572-572.	21.4	0