Erika Fernandez-Vizarra

List of Publications by Year
in descending order

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63 papers	4,900 citations	109321 35 h-index	128289 60 g-index
69 all docs	69 docs citations	69 times ranked	6720 citing authors

#	Article	IF	Citations
1	Supercomplex Assembly Determines Electron Flux in the Mitochondrial Electron Transport Chain. Science, 2013, 340, 1567-1570.	12.6	687
2	MPV17 encodes an inner mitochondrial membrane protein and is mutated in infantile hepatic mitochondrial DNA depletion. Nature Genetics, 2006, 38, 570-575.	21.4	380
3	Loss of mitochondrial protease OMA1 alters processing of the GTPase OPA1 and causes obesity and defective thermogenesis in mice. EMBO Journal, 2012, 31, 2117-2133.	7.8	230
4	Assembly of mammalian oxidative phosphorylation complexes Iâ€“V and supercomplexes. Essays in Biochemistry, 2018, 62, 255-270.	4.7	191
5	Assembly of the oxidative phosphorylation system in humans: What we have learned by studying its defects. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 200-211.	4.1	182
6	Infantile Encephalopathy and Defective Mitochondrial DNA Translation in Patients with Mutations of Mitochondrial Elongation Factors EFG1 and EFTu. American Journal of Human Genetics, 2007, 80, 44-58.	6.2	172
7	Severe Infantile Encephalomyopathy Caused by a Mutation in COX6B1, a Nucleus-Encoded Subunit of Cytochrome C Oxidase. American Journal of Human Genetics, 2008, 82, 1281-1289.	6.2	165
8	Impaired complex III assembly associated with BCS1L gene mutations in isolated mitochondrial encephalopathy. Human Molecular Genetics, 2007, 16, 1241-1252.	2.9	158
9	Isolation of mitochondria for biogenetical studies: An update. Mitochondrion, 2010, 10, 253-262.	3.4	158
10	Isolation of biogenetically competent mitochondria from mammalian tissues and cultured cells. Methods, 2002, 26, 292-297.	3.8	142
11	Tissue-specific differences in mitochondrial activity and biogenesis. Mitochondrion, 2011, 11, 207-213.	3.4	139
12	Nonsense mutation in pseudouridylate synthase 1 (PUS1) in two brothers affected by myopathy, lactic acidosis and sideroblastic anaemia (MLASA). Journal of Medical Genetics, 2006, 44, 173-180.	3.2	128
13	Mitochondrial disorders of the OXPHOS system. FEBS Letters, 2021, 595, 1062-1106.	2.8	117
14	Nuclear gene mutations as the cause of mitochondrial complex III deficiency. Frontiers in Genetics, 2015, 6, 134.	2.3	116
15	FASTKD2 Nonsense Mutation in an Infantile Mitochondrial Encephalomyopathy Associated with Cytochrome C Oxidase Deficiency. American Journal of Human Genetics, 2008, 83, 415-423.	6.2	107
16	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
17	Neural stem cells traffic functional mitochondria via extracellular vesicles. PLoS Biology, 2021, 19, e3001166.	5.6	95
18	COX7A2L Is a Mitochondrial Complex III Binding Protein that Stabilizes the III2+IV Supercomplex without Affecting Respirasome Formation. Cell Reports, 2016, 16, 2387-2398.	6.4	93

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19	Neuronal complex I deficiency occurs throughout the Parkinsonâ€™s disease brain, but is not associated with neurodegeneration or mitochondrial DNA damage. Acta Neuropathologica, 2018, 135, 409-425.	7.7	89
20	Early-onset liver mtDNA depletion and late-onset proteinuric nephropathy in Mpv17 knockout mice. Human Molecular Genetics, 2009, 18, 12-26.	2.9	87
21	MR-1S Interacts with PET100 and PET117 in Module-Based Assembly of Human Cytochrome c Oxidase. Cell Reports, 2017, 18, 1727-1738.	6.4	86
22	LYRM7/MZM1L is a UQCRFS1 chaperone involved in the last steps of mitochondrial Complex III assembly in human cells. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 285-293.	1.0	71
23	Mitochondrial complex III Rieske Fe-S protein processing and assembly. Cell Cycle, 2018, 17, 681-687.	2.6	70
24	Five Entry Points of the Mitochondrially Encoded Subunits in Mammalian Complex I Assembly. Molecular and Cellular Biology, 2010, 30, 3038-3047.	2.3	68
25	Mutations in APOPT1, Encoding a Mitochondrial Protein, Cause Cavitating Leukoencephalopathy with Cytochrome c Oxidase Deficiency. American Journal of Human Genetics, 2014, 95, 315-325.	6.2	64
26	TTC19 Plays a Husbandry Role on UQCRFS1 Turnover in the Biogenesis of Mitochondrial Respiratory Complex III. Molecular Cell, 2017, 67, 96-105.e4.	9.7	64
27	Defective <scp>PITRM</scp> 1 mitochondrial peptidase is associated with AÎ² amyloidotic neurodegeneration. EMBO Molecular Medicine, 2016, 8, 176-190.	6.9	60
28	Inhibition of proteasome rescues a pathogenic variant of respiratory chain assembly factor COA7. EMBO Molecular Medicine, 2019, 11, .	6.9	59
29	miRâ€181a/b downregulation exerts a protective action on mitochondrial disease models. EMBO Molecular Medicine, 2019, 11, .	6.9	58
30	Redox activation of mitochondrial intermembrane space Cu,Zn-superoxide dismutase. Biochemical Journal, 2005, 387, 203-209.	3.7	56
31	Mutations in NDUFB11, Encoding a Complex I Component of the Mitochondrial Respiratory Chain, Cause Microphthalmia with Linear Skin Defects Syndrome. American Journal of Human Genetics, 2015, 96, 640-650.	6.2	56
32	Bioenergetic consequences from xenotopic expression of a tunicate AOX in mouse mitochondria: Switch from RET and ROS to FET. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148137.	1.0	46
33	In Vivo and In Organello Analyses of Mitochondrial Translation. Methods in Cell Biology, 2007, 80, 571-588.	1.1	45
34	COA7(C1orf163/RESA1) mutations associated with mitochondrial leukoencephalopathy and cytochrome c oxidase deficiency. Journal of Medical Genetics, 2016, 53, 846-849.	3.2	40
35	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
36	How Do Human Cells React to the Absence of Mitochondrial DNA?. PLoS ONE, 2009, 4, e5713.	2.5	31

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37	A homozygous MRPL24 mutation causes a complex movement disorder and affects the mitoribosome assembly. Neurobiology of Disease, 2020, 141, 104880.	4.4	29
38	Inflammation causes remodeling of mitochondrial cytochrome c oxidase mediated by the bifunctional gene C15orf48. Science Advances, 2021, 7, eabl5182.	10.3	29
39	Mutation in the MICOS subunit gene APOO (MIC26) associated with an X-linked recessive mitochondrial myopathy, lactic acidosis, cognitive impairment and autistic features. Journal of Medical Genetics, 2021, 58, 155-167.	3.2	28
40	CEDAR, an online resource for the reporting and exploration of complexome profiling data. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148411.	1.0	27
41	Redox-Mediated Regulation of Mitochondrial Biogenesis, Dynamics, and Respiratory Chain Assembly in Yeast and Human Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 720656.	3.7	25
42	SURF1 knockout cloned pigs: Early onset of a severe lethal phenotype. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2131-2142.	3.8	24
43	Mitochondrially-targeted APOBEC1 is a potent mtDNA mutator affecting mitochondrial function and organismal fitness in Drosophila. Nature Communications, 2019, 10, 3280.	12.8	23
44	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
45	Exome sequencing coupled with mRNA analysis identifies NDUFAF6 as a Leigh gene. Molecular Genetics and Metabolism, 2016, 119, 214-222.	1.1	21
46	Loss of COX4I1 Leads to Combined Respiratory Chain Deficiency and Impaired Mitochondrial Protein Synthesis. Cells, 2021, 10, 369.	4.1	21
47	Knockdown of APOPT1/COA8 Causes Cytochrome c Oxidase Deficiency, Neuromuscular Impairment, and Reduced Resistance to Oxidative Stress in Drosophila melanogaster. Frontiers in Physiology, 2019, 10, 1143.	2.8	19
48	APOPT 1/ COA 8 assists COX assembly and is oppositely regulated by UPS and ROS. EMBO Molecular Medicine, 2019, 11, .	6.9	19
49	Blue-Native Electrophoresis to Study the OXPHOS Complexes. Methods in Molecular Biology, 2021, 2192, 287-311.	0.9	17
50	Cavitating Leukoencephalopathy With Posterior Predominance Caused by a Deletion in the APOPT1 Gene in an Indian Boy. Journal of Child Neurology, 2018, 33, 428-431.	1.4	16
51	Duplexing complexome profiling with SILAC to study human respiratory chain assembly defects. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148395.	1.0	15
52	SILAC-based complexome profiling dissects the structural organization of the human respiratory supercomplexes in SCAFIKO cells. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148414.	1.0	15
53	Proteomics and gene expression analyses of mitochondria from squalene-treated apoE-deficient mice identify short-chain specific acyl-CoA dehydrogenase changes associated with fatty liver amelioration. Journal of Proteomics, 2012, 75, 2563-2575.	2.4	14
54	NDUFS3 depletion permits complex I maturation and reveals TMEM126A/OPA7 as an assembly factor binding the ND4-module intermediate. Cell Reports, 2021, 35, 109002.	6.4	13

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55	Novel mutation in mitochondrial Elongation Factor EF-Tu associated to dysplastic leukoencephalopathy and defective mitochondrial DNA translation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 961-967.	3.8	12
56	Isolation of Mitochondria from Mammalian Tissues and Cultured Cells. , 2006, , 69-77.		10
57	Nonsense mutation in pseudouridylate synthase 1 (PUS1) in two brothers affected by myopathy, lactic acidosis and sideroblastic anaemia (MLASA). BMJ Case Reports, 2009, 2009, bcr0520091889-bcr0520091889.	0.5	10
58	Measurement of mitochondrial respiratory chain enzymatic activities in Drosophila melanogaster samples. STAR Protocols, 2022, 3, 101322.	1.2	9
59	CG7630 is the Drosophila melanogaster homolog of the cytochrome c oxidase subunit COX7B. EMBO Reports, 0, , .	4.5	7
60	Biallelic mutations in NDUFA8 cause complex I deficiency in two siblings with favorable clinical evolution. Molecular Genetics and Metabolism, 2020, 131, 349-357.	1.1	6
61	Mitochondrial Cytochrome c Oxidase Defects Alter Cellular Homeostasis of Transition Metals. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	5
62	Partial tandem duplication of mtDNAâ€“tRNAPhe impairs mtDNA translation in late-onset mitochondrial myopathy. Neuromuscular Disorders, 2012, 22, 50-55.	0.6	2
63	Biogenesis of NDUFS3-Less Complex I Indicates TMEM126A/OPA7 as an Assembly Factor of the ND4-Module. SSRN Electronic Journal, 0, , .	0.4	0