Erika Fernandez-Vizarra

List of Publications by Citations

63 papers	3,577 citations	31 h-index	59 g-index
69 ext. papers	4,318 ext. citations	7.5 avg, IF	5.33 L-index

#	Paper	IF	Citations
63	Supercomplex assembly determines electron flux in the mitochondrial electron transport chain. *Science*, **2013**, 340, 1567-70	33.3	528
62	MPV17 encodes an inner mitochondrial membrane protein and is mutated in infantile hepatic mitochondrial DNA depletion. *Nature Genetics*, **2006**, 38, 570-5	36.3	341
61	Loss of mitochondrial protease OMA1 alters processing of the GTPase OPA1 and causes obesity and defective thermogenesis in mice. *EMBO Journal*, **2012**, 31, 2117-33	13	180
60	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, 200-11	4.9	160
59	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	11	156
58	Severe infantile encephalomyopathy caused by a mutation in COX6B1, a nucleus-encoded subunit of cytochrome c oxidase. *American Journal of Human Genetics*, **2008**, 82, 1281-9	11	151
57	Impaired complex III assembly associated with BCS1L gene mutations in isolated mitochondrial encephalopathy. *Human Molecular Genetics*, **2007**, 16, 1241-52	5.6	141
56	Isolation of biogenetically competent mitochondria from mammalian tissues and cultured cells. *Methods*, **2002**, 26, 292-7	4.6	129
55	Isolation of mitochondria for biogenetical studies: An update. *Mitochondrion*, **2010**, 10, 253-62	4.9	125
54	Assembly of mammalian oxidative phosphorylation complexes I-V and supercomplexes. *Essays in Biochemistry*, **2018**, 62, 255-270	7.6	107
53	Nonsense mutation in pseudouridylate synthase 1 (PUS1) in two brothers affected by myopathy, lactic acidosis and sideroblastic anaemia (MLASA). *Journal of Medical Genetics*, **2007**, 44, 173-80	5.8	107
52	Tissue-specific differences in mitochondrial activity and biogenesis. *Mitochondrion*, **2011**, 11, 207-13	4.9	96
51	FASTKD2 nonsense mutation in an infantile mitochondrial encephalomyopathy associated with cytochrome c oxidase deficiency. *American Journal of Human Genetics*, **2008**, 83, 415-23	11	93
50	Nuclear gene mutations as the cause of mitochondrial complex III deficiency. *Frontiers in Genetics*, **2015**, 6, 134	4.5	88
49	Early-onset liver mtDNA depletion and late-onset proteinuric nephropathy in Mpv17 knockout mice. *Human Molecular Genetics*, **2009**, 18, 12-26	5.6	77
48	COX7A2L Is a Mitochondrial Complex III Binding Protein that Stabilizes the III2+IV Supercomplex without Affecting Respirasome Formation. *Cell Reports*, **2016**, 16, 2387-98	10.6	71
47	MR-1S Interacts with PET100 and PET117 in Module-Based Assembly of Human Cytochrome c Oxidase. *Cell Reports*, **2017**, 18, 1727-1738	10.6	64

46	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, 285-93	4.6	60
45	Neuronal complex I deficiency occurs throughout the Parkinson's disease brain, but is not associated with neurodegeneration or mitochondrial DNA damage. *Acta Neuropathologica*, **2018**, 135, 409-425	14.3	59
44	Respiratory supercomplexes act as a platform for complex III-mediated maturation of human mitochondrial complexes I and IV. *EMBO Journal*, **2020**, 39, e102817	13	57
43	Five entry points of the mitochondrially encoded subunits in mammalian complex I assembly. *Molecular and Cellular Biology*, **2010**, 30, 3038-47	4.8	52
42	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, 640-50	11	49
41	Redox activation of mitochondrial intermembrane space Cu,Zn-superoxide dismutase. *Biochemical Journal*, **2005**, 387, 203-9	3.8	49
40	Mutations in APOPT1, encoding a mitochondrial protein, cause cavitating leukoencephalopathy with cytochrome c oxidase deficiency. *American Journal of Human Genetics*, **2014**, 95, 315-25	11	48
39	Defective PITRM1 mitochondrial peptidase is associated with Aβ amyloidotic neurodegeneration. *EMBO Molecular Medicine*, **2016**, 8, 176-90	12	46
38	TTC19 Plays a Husbandry Role on UQCRFS1 Turnover in the Biogenesis of Mitochondrial Respiratory Complex III. *Molecular Cell*, **2017**, 67, 96-105.e4	17.6	43
37	In vivo and in organello analyses of mitochondrial translation. *Methods in Cell Biology*, **2007**, 80, 571-88	1.8	40
36	miR-181a/b downregulation exerts a protective action on mitochondrial disease models. *EMBO Molecular Medicine*, **2019**, 11,	12	38
35	Inhibition of proteasome rescues a pathogenic variant of respiratory chain assembly factor COA7. *EMBO Molecular Medicine*, **2019**, 11,	12	37
34	Mitochondrial gene expression is regulated at multiple levels and differentially in the heart and liver by thyroid hormones. *Current Genetics*, **2008**, 54, 13-22	2.9	33
33	COA7 (C1orf163/RESA1) mutations associated with mitochondrial leukoencephalopathy and cytochrome c oxidase deficiency. *Journal of Medical Genetics*, **2016**, 53, 846-849	5.8	31
32	Neural stem cells traffic functional mitochondria via extracellular vesicles. *PLoS Biology*, **2021**, 19, e3001166	9.7	28
31	Mitochondrial complex III Rieske Fe-S protein processing and assembly. *Cell Cycle*, **2018**, 17, 681-687	4.7	28
30	How do human cells react to the absence of mitochondrial DNA?. *PLoS ONE*, **2009**, 4, e5713	3.7	25
29	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	4.6	23

28	Mitochondrial disorders of the OXPHOS system. *FEBS Letters*, **2021**, 595, 1062-1106	3.8	21
27	In vitro transcription termination activity of the Drosophila mitochondrial DNA-binding protein DmTTF. *Biochemical and Biophysical Research Communications*, **2005**, 331, 357-62	3.4	20
26	Exome sequencing coupled with mRNA analysis identifies NDUFAF6 as a Leigh gene. *Molecular Genetics and Metabolism*, **2016**, 119, 214-222	3.7	19
25	A homozygous MRPL24 mutation causes a complex movement disorder and affects the mitoribosome assembly. *Neurobiology of Disease*, **2020**, 141, 104880	7.5	13
24	SURF1 knockout cloned pigs: Early onset of a severe lethal phenotype. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 2131-2142	6.9	12
23	Mitochondrially-targeted APOBEC1 is a potent mtDNA mutator affecting mitochondrial function and organismal fitness in Drosophila. *Nature Communications*, **2019**, 10, 3280	17.4	10
22	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, 2563-75	3.9	10
21	Mutation in the MICOS subunit gene (MIC26) associated with an X-linked recessive mitochondrial myopathy, lactic acidosis, cognitive impairment and autistic features. *Journal of Medical Genetics*, **2021**, 58, 155-167	5.8	10
20	Duplexing complexome profiling with SILAC to study human respiratory chain assembly defects. *Biochimica Et Biophysica Acta - Bioenergetics*, **2021**, 1862, 148395	4.6	9
19	APOPT1/COA8 assists COX assembly and is oppositely regulated by UPS and ROS. *EMBO Molecular Medicine*, **2019**, 11,	12	9
18	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	2.5	8
17	SILAC-based complexome profiling dissects the structural organization of the human respiratory supercomplexes in SCAFI cells. *Biochimica Et Biophysica Acta - Bioenergetics*, **2021**, 1862, 148414	4.6	8
16	CEDAR, an online resource for the reporting and exploration of complexome profiling data. *Biochimica Et Biophysica Acta - Bioenergetics*, **2021**, 1862, 148411	4.6	8
15	Loss of COX4I1 Leads to Combined Respiratory Chain Deficiency and Impaired Mitochondrial Protein Synthesis. *Cells*, **2021**, 10,	7.9	8
14	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	6.9	7
13	Knockdown of Causes Cytochrome Oxidase Deficiency, Neuromuscular Impairment, and Reduced Resistance to Oxidative Stress in. *Frontiers in Physiology*, **2019**, 10, 1143	4.6	7
12	Nonsense mutation in pseudouridylate synthase 1 (PUS1) in two brothers affected by myopathy, lactic acidosis and sideroblastic anaemia (MLASA). *BMJ Case Reports*, **2009**, 2009,	0.9	5
11	NDUFS3 depletion permits complex I maturation and reveals TMEM126A/OPA7 as an assembly factor binding the ND4-module intermediate. *Cell Reports*, **2021**, 35, 109002	10.6	5

List of Publications

10	Isolation of Mitochondria from Mammalian Tissues and Cultured Cells **2006**, 69-77		4
9	Neural stem cells traffic functional mitochondria via extracellular vesicles to correct mitochondrial dysfunction in target cells		4
8	CEDAR, an online resource for the reporting and exploration of complexome profiling data		4
7	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	5.7	4
6	Blue-Native Electrophoresis to Study the OXPHOS Complexes. *Methods in Molecular Biology*, **2021**, 2192, 287-311	1.4	4
5	Biogenesis of NDUFS3-less complex I indicates TMEM126A/OPA7 as an assembly factor of the ND4-module		2
4	Biallelic mutations in NDUFA8 cause complex I deficiency in two siblings with favorable clinical evolution. *Molecular Genetics and Metabolism*, **2020**, 131, 349-357	3.7	2
3	Partial tandem duplication of mtDNA-tRNA(Phe) impairs mtDNA translation in late-onset mitochondrial myopathy. *Neuromuscular Disorders*, **2012**, 22, 50-5	2.9	1
2	Inflammation causes remodeling of mitochondrial cytochrome oxidase mediated by the bifunctional gene. *Science Advances*, **2021**, 7, eabl5182	14.3	1
1	Measurement of mitochondrial respiratory chain enzymatic activities in samples.. *STAR Protocols*, **2022**, 3, 101322	1.4	1