

# Anna Maria Ghelli

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7578305/publications.pdf>

Version: 2024-02-01

72  
papers

4,353  
citations

117571

34  
h-index

106281

65  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4912  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial cytochrome b: evolution and structure of the protein. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1143, 243-271.	0.5	328
2	OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. <i>Brain</i> , 2008, 131, 352-367.	3.7	285
3	pH difference across the outer mitochondrial membrane measured with a green fluorescent protein mutant. <i>Biochemical and Biophysical Research Communications</i> , 2005, 326, 799-804.	1.0	259
4	Disruptive mitochondrial DNA mutations in complex I subunits are markers of oncocytic phenotype in thyroid tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9001-9006.	3.3	256
5	Oestrogens ameliorate mitochondrial dysfunction in Leber's hereditary optic neuropathy. <i>Brain</i> , 2011, 134, 220-234.	3.7	208
6	Defective Oxidative Phosphorylation in Thyroid Oncocytic Carcinoma Is Associated with Pathogenic Mitochondrial DNA Mutations Affecting Complexes I and III. <i>Cancer Research</i> , 2006, 66, 6087-6096.	0.4	204
7	Leber's Hereditary Optic Neuropathy (LHON) Pathogenic Mutations Induce Mitochondrial-dependent Apoptotic Death in Transmitochondrial Cells Incubated with Galactose Medium. <i>Journal of Biological Chemistry</i> , 2003, 278, 4145-4150.	1.6	169
8	Functional alterations of the mitochondrially encoded ND4 subunit associated with Leber's hereditary optic neuropathy. <i>FEBS Letters</i> , 1994, 352, 375-379.	1.3	119
9	Caspase-independent death of Leber's hereditary optic neuropathy cybrids is driven by energetic failure and mediated by AIF and Endonuclease G. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2005, 10, 997-1007.	2.2	113
10	The genetic and metabolic signature of oncocytic transformation implicates HIF1 $\alpha$ destabilization. <i>Human Molecular Genetics</i> , 2010, 19, 1019-1032.	1.4	113
11	The effects of idebenone on mitochondrial bioenergetics. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 363-369.	0.5	107
12	Cigarette toxicity triggers Leber's hereditary optic neuropathy by affecting mtDNA copy number, oxidative phosphorylation and ROS detoxification pathways. <i>Cell Death and Disease</i> , 2015, 6, e2021-e2021.	2.7	107
13	The ND1 gene of complex I is a mutational hot spot for Leber's hereditary optic neuropathy. <i>Annals of Neurology</i> , 2004, 56, 631-641.	2.8	102
14	Bioenergetics shapes cellular death pathways in Leber's hereditary optic neuropathy: a model of mitochondrial neurodegeneration. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1658, 172-179.	0.5	102
15	The Interaction of Q Analogs, Particularly Hydroxydecyl Benzoquinone (Idebenone), with the Respiratory Complexes of Heart Mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1996, 330, 395-400.	1.4	101
16	Complex I and Complex III of Mitochondria Have Common Inhibitors Acting as Ubiquinone Antagonists. <i>Biochemical and Biophysical Research Communications</i> , 1993, 190, 1090-1096.	1.0	99
17	Different mtDNA mutations modify tumor progression in dependence of the degree of respiratory complex I impairment. <i>Human Molecular Genetics</i> , 2014, 23, 1453-1466.	1.4	96
18	Respiratory Complex I Dysfunction Due to Mitochondrial DNA Mutations Shifts the Voltage Threshold for Opening of the Permeability Transition Pore toward Resting Levels. <i>Journal of Biological Chemistry</i> , 2009, 284, 2045-2052.	1.6	91

#	ARTICLE	IF	CITATIONS
19	A Mutation Threshold Distinguishes the Antitumorigenic Effects of the Mitochondrial Gene <i>MTND1</i> , an <i>Oncojanus</i> Function. <i>Cancer Research</i> , 2011, 71, 6220-6229.	0.4	90
20	The specificity of mitochondrial complex I for ubiquinones. <i>Biochemical Journal</i> , 1996, 313, 327-334.	1.7	87
21	The Background of Mitochondrial DNA Haplogroup J Increases the Sensitivity of Leber's Hereditary Optic Neuropathy Cells to 2,5-Hexanedione Toxicity. <i>PLoS ONE</i> , 2009, 4, e7922.	1.1	76
22	Respiratory complex I is essential to induce a Warburg profile in mitochondria-defective tumor cells. <i>Cancer &amp; Metabolism</i> , 2013, 1, 11.	2.4	75
23	The mechanism of proton and electron transport in mitochondrial complex I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1994, 1187, 116-120.	0.5	73
24	Manipulation of Mitochondria Dynamics Reveals Separate Roles for Form and Function in Mitochondria Distribution. <i>Cell Reports</i> , 2018, 23, 1742-1753.	2.9	71
25	Mitochondrial metabolism and energy sensing in tumor progression. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 582-590.	0.5	67
26	Molecular mechanisms of superoxide production by complex III: A bacterial versus human mitochondrial comparative case study. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 1332-1339.	0.5	65
27	Targeting estrogen receptor $\beta$ as preventive therapeutic strategy for Leber's hereditary optic neuropathy. <i>Human Molecular Genetics</i> , 2015, 24, ddv396.	1.4	62
28	An inherited mitochondrial DNA disruptive mutation shifts to homoplasmy in oncocytic tumor cells. <i>Human Mutation</i> , 2009, 30, 391-396.	1.1	55
29	Inhibitor sensitivity of respiratory complex I in human platelets: A possible biomarker of ageing. <i>FEBS Letters</i> , 1996, 380, 176-178.	1.3	47
30	The cytochrome b p.278Y>C mutation causative of a multisystem disorder enhances superoxide production and alters supramolecular interactions of respiratory chain complexes. <i>Human Molecular Genetics</i> , 2013, 22, 2141-2151.	1.4	46
31	Phospholipase D stimulation is required for sphingosine-1-phosphate activation of actin stress fibre assembly in human airway epithelial cells. <i>Cellular Signalling</i> , 2002, 14, 75-81.	1.7	41
32	Apoptotic Cell Death of Cybrid Cells Bearing Leber's Hereditary Optic Neuropathy Mutations Is Caspase Independent. <i>Annals of the New York Academy of Sciences</i> , 2003, 1010, 213-217.	1.8	41
33	Protection against Oxidant-Induced Apoptosis by Exogenous Glutathione in Leber Hereditary Optic Neuropathy Cybrids. , 2008, 49, 671.		41
34	Submitochondrial particles as toxicity biosensors of chlorophenols. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 363-368.	2.2	38
35	A Novel in-Frame 18-bp Microdeletion in <i>MT-CYB</i> Causes a Multisystem Disorder with Prominent Exercise Intolerance. <i>Human Mutation</i> , 2014, 35, 954-958.	1.1	38
36	A clinically complex form of dominant optic atrophy (OPA8) maps on chromosome 16. <i>Human Molecular Genetics</i> , 2011, 20, 1893-1905.	1.4	36

#	ARTICLE	IF	CITATIONS
37	Natural variation in the potency and binding sites of mitochondrial quinone-like inhibitors. <i>Biochemical Society Transactions</i> , 1994, 22, 209-213.	1.6	35
38	7-Ketocholesterol and staurosporine induce opposite changes in intracellular pH, associated with distinct types of cell death in ECV304 cells. <i>Archives of Biochemistry and Biophysics</i> , 2002, 402, 208-217.	1.4	28
39	Proton pumping of mitochondrial complex I: differential activation by analogs of ubiquinone. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 71-80.	1.0	27
40	Haplogroup J mitogenomes are the most sensitive to the pesticide rotenone: Relevance for human diseases. <i>Neurobiology of Disease</i> , 2018, 114, 129-139.	2.1	22
41	6-Thienyl and 6-phenylimidazo[2,1-b]thiazoles as inhibitors of mitochondrial NADH dehydrogenase. <i>European Journal of Medicinal Chemistry</i> , 1999, 34, 883-889.	2.6	21
42	Melanopsin-expressing retinal ganglion cells are resistant to cell injury, but not always. <i>Mitochondrion</i> , 2017, 36, 77-84.	1.6	18
43	Measurement of the Membrane Potential Generated by Complex I in Submitochondrial Particles. <i>Journal of Biochemistry</i> , 1997, 121, 746-755.	0.9	17
44	Cybrid studies establish the causal link between the mtDNA m.3890G>A/MT-ND1 mutation and optic atrophy with bilateral brainstem lesions. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 445-452.	1.8	17
45	Metabolomics hallmarks OPA1 variants correlating with their in vitro phenotype and predicting clinical severity. <i>Human Molecular Genetics</i> , 2020, 29, 1319-1329.	1.4	17
46	Fine-tuning of the respiratory complexes stability and supercomplexes assembly in cells defective of complex III. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148133.	0.5	16
47	Cytochrome b of fish mitochondria is strongly resistant to funiculosin, a powerful inhibitor of respiration. <i>Archives of Biochemistry and Biophysics</i> , 1992, 295, 198-204.	1.4	15
48	Mitochondrial complex I and cell death: a semi-automatic shotgun model. <i>Cell Death and Disease</i> , 2011, 2, e222-e222.	2.7	15
49	Duplexing complexome profiling with SILAC to study human respiratory chain assembly defects. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148395.	0.5	15
50	Thienylimidazo[2,1-b]thiazoles as Inhibitors of Mitochondrial NADH Dehydrogenase. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 1090-1097.	2.9	14
51	Ubiquinone and inhibitor sites in complex I: one, two or three?. <i>Biochemical Society Transactions</i> , 1999, 27, 606-609.	1.6	14
52	Reactive Oxygen Species Produced by Mutated Mitochondrial Respiratory Chains of Entire Cells Monitored Using Modified Microelectrodes. <i>ChemElectroChem</i> , 2019, 6, 627-633.	1.7	14
53	The antioxidant function of Bcl-2 preserves cytoskeletal stability of cells with defective respiratory complex I. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2943-2951.	2.4	13
54	Unravelling the Effects of the Mutation m.3571insC/MT-ND1 on Respiratory Complexes Structural Organization. <i>International Journal of Molecular Sciences</i> , 2018, 19, 764.	1.8	13

#	ARTICLE	IF	CITATIONS
55	Drug repositioning as a therapeutic strategy for neurodegenerations associated with OPA1 mutations. <i>Human Molecular Genetics</i> , 2021, 29, 3631-3645.	1.4	13
56	The cytochrome b of the sea urchin <i>Paracentrotus lividus</i> is naturally resistant to myxothiazol and mucidin. <i>FEBS Letters</i> , 1990, 263, 245-247.	1.3	12
57	Growth kinetics, polyamine pattern and biosynthesis in hairy root lines of <i>Nicotiana tabacum</i> . <i>Physiologia Plantarum</i> , 1992, 85, 697-703.	2.6	12
58	Phospholipase D1 is threonine-phosphorylated in human-airway epithelial cells stimulated by sphingosine-1-phosphate by a mechanism involving Src tyrosine kinase and protein kinase C $\beta$ . <i>Biochemical Journal</i> , 2002, 366, 187-193.	1.7	11
59	Staurosporine Induces Apoptotic Volume Decrease (AVD) in ECV304 Cells. <i>Annals of the New York Academy of Sciences</i> , 2003, 1010, 342-346.	1.8	11
60	Protonophoric Activity of NADH Coenzyme Q Reductase and ATP Synthase in Coupled Submitochondrial Particles from Horse Platelets. <i>Biochemical and Biophysical Research Communications</i> , 1997, 235, 469-473.	1.0	8
61	Cytochrome b of protozoan mitochondria: Relationships between function and structure. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 103, 329-338.	0.2	7
62	Green Tea Modulates $\beta$ -Adrenergic Stimulated Glucose Transport in Cultured Rat Cardiomyocytes. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7553-7558.	2.4	7
63	Complex II phosphorylation is triggered by unbalanced redox homeostasis in cells lacking complex III. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 182-190.	0.5	7
64	Exogenous peptides are able to penetrate human cell and mitochondrial membranes, stabilize mitochondrial tRNA structures, and rescue severe mitochondrial defects. <i>FASEB Journal</i> , 2020, 34, 7675-7686.	0.2	6
65	Thienylvinylindoles as inhibitors of mitochondrial NADH dehydrogenase. <i>Pharmaceutica Acta Helveticae</i> , 1994, 69, 15-20.	1.2	5
66	Mild phenotypes and proper supercomplex assembly in human cells carrying the homoplasmic m.15557G>A mutation in cytochrome b gene. <i>Human Mutation</i> , 2018, 39, 92-102.	1.1	5
67	Organization of the Respiratory Supercomplexes in Cells with Defective Complex III: Structural Features and Metabolic Consequences. <i>Life</i> , 2021, 11, 351.	1.1	4
68	New Insights on Rotenone Resistance of Complex I Induced by the m.11778G>A/MT-ND4 Mutation Associated with Leber's Hereditary Optic Neuropathy. <i>Molecules</i> , 2022, 27, 1341.	1.7	3
69	Inducing respiratory complex I impairment elicits an increase in PGC1 $\beta$ in ovarian cancer. <i>Scientific Reports</i> , 2022, 12, 8020.	1.6	2
70	Methods and models for functional studies on mtDNA mutations. , 2020, , 305-349.		1
71	Relationship between supercomplexes organization and electron flux in cells with complex III dysfunctions. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, e37-e38.	0.5	0
72	Mitochondrial Respiratory Supercomplexes in Physiology and Diseases. , 2015, , 149-166.		0