# Anna Maria Ghelli

List of Publications by Year
in descending order

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|---|---|---|---|
| 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 | New Insights on Rotenone Resistance of Complex I Induced by the m.11778G>A/MT-ND4 Mutation Associated with Leberâ€™s Hereditary Optic Neuropathy. Molecules, 2022, 27, 1341. | 1.7 | 3 |
| 2 | Inducing respiratory complex I impairment elicits an increase in PGC1Î± in ovarian cancer. Scientific Reports, 2022, 12, 8020. | 1.6 | 2 |
| 3 | Drug repositioning as a therapeutic strategy for neurodegenerations associated with OPA1 mutations. Human Molecular Genetics, 2021, 29, 3631-3645. | 1.4 | 13 |
| 4 | Organization of the Respiratory Supercomplexes in Cells with Defective Complex III: Structural Features and Metabolic Consequences. Life, 2021, 11, 351. | 1.1 | 4 |
| 5 | Duplexing complexome profiling with SILAC to study human respiratory chain assembly defects. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148395. | 0.5 | 15 |
| 6 | Fine-tuning of the respiratory complexes stability and supercomplexes assembly in cells defective of complex III. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148133. | 0.5 | 16 |
| 7 | Methods and models for functional studies on mtDNA mutations. , 2020, , 305-349. | | 1 |
| 8 | Metabolomics hallmarks OPA1 variants correlating with their in vitro phenotype and predicting clinical severity. Human Molecular Genetics, 2020, 29, 1319-1329. | 1.4 | 17 |
| 9 | Exogenous peptides are able to penetrate human cell and mitochondrial membranes, stabilize mitochondrial tRNA structures, and rescue severe mitochondrial defects. FASEB Journal, 2020, 34, 7675-7686. | 0.2 | 6 |
| 10 | Reactive Oxygen Species Produced by Mutated Mitochondrial Respiratory Chains of Entire Cells Monitored Using Modified Microelectrodes. ChemElectroChem, 2019, 6, 627-633. | 1.7 | 14 |
| 11 | Haplogroup J mitogenomes are the most sensitive to the pesticide rotenone: Relevance for human diseases. Neurobiology of Disease, 2018, 114, 129-139. | 2.1 | 22 |
| 12 | Complex II phosphorylation is triggered by unbalanced redox homeostasis in cells lacking complex III. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 182-190. | 0.5 | 7 |
| 13 | Mild phenotypes and proper supercomplex assembly in human cells carrying the homoplasmic m.15557GÂ>ÂA mutation in cytochromebgene. Human Mutation, 2018, 39, 92-102. | 1.1 | 5 |
| 14 | Unravelling the Effects of the Mutation m.3571insC/MT-ND1 on Respiratory Complexes Structural Organization. International Journal of Molecular Sciences, 2018, 19, 764. | 1.8 | 13 |
| 15 | Manipulation of Mitochondria Dynamics Reveals Separate Roles for Form and Function in Mitochondria Distribution. Cell Reports, 2018, 23, 1742-1753. | 2.9 | 71 |
| 16 | Mitochondrial metabolism and energy sensing in tumor progression. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 582-590. | 0.5 | 67 |
| 17 | Melanopsin-expressing retinal ganglion cells are resistant to cell injury, but not always. Mitochondrion, 2017, 36, 77-84. | 1.6 | 18 |
| 18 | Relationship between supercomplexes organization and electron flux in cells with complex III dysfunctions. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, e37-e38. | 0.5 | 0 |

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| 19 | Cigarette toxicity triggers Leberâ€™s hereditary optic neuropathy by affecting mtDNA copy number, oxidative phosphorylation and ROS detoxification pathways. Cell Death and Disease, 2015, 6, e2021-e2021. | 2.7 | 107 |
| 20 | Targeting estrogen receptor Î² as preventive therapeutic strategy for Leber's hereditary optic neuropathy. Human Molecular Genetics, 2015, 24, ddv396. | 1.4 | 62 |
| 21 | Mitochondrial Respiratory Supercomplexes in Physiology and Diseases. , 2015, , 149-166. | | 0 |
| 22 | Different mtDNA mutations modify tumor progression in dependence of the degree of respiratory complex I impairment. Human Molecular Genetics, 2014, 23, 1453-1466. | 1.4 | 96 |
| 23 | A Novel in-Frame 18-bp Microdeletion inMT-CYBCauses a Multisystem Disorder with Prominent Exercise Intolerance. Human Mutation, 2014, 35, 954-958. | 1.1 | 38 |
| 24 | Respiratory complex I is essential to induce a Warburg profile in mitochondria-defective tumor cells. Cancer & Metabolism, 2013, 1, 11. | 2.4 | 75 |
| 25 | Cybrid studies establish the causal link between the mtDNA m.3890G>A/MT-ND1 mutation and optic atrophy with bilateral brainstem lesions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 445-452. | 1.8 | 17 |
| 26 | The cytochrome b p.278Y>C mutation causative of a multisystem disorder enhances superoxide production and alters supramolecular interactions of respiratory chain complexes. Human Molecular Genetics, 2013, 22, 2141-2151. | 1.4 | 46 |
| 27 | Molecular mechanisms of superoxide production by complex III: A bacterial versus human mitochondrial comparative case study. Biochimica Et Biophysica Acta - Bioenergetics, 2013, 1827, 1332-1339. | 0.5 | 65 |
| 28 | The effects of idebenone on mitochondrial bioenergetics. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 363-369. | 0.5 | 107 |
| 29 | Oestrogens ameliorate mitochondrial dysfunction in Leberâ€™s hereditary optic neuropathy. Brain, 2011, 134, 220-234. | 3.7 | 208 |
| 30 | Mitochondrial complex I and cell death: a semi-automatic shotgun model. Cell Death and Disease, 2011, 2, e222-e222. | 2.7 | 15 |
| 31 | A Mutation Threshold Distinguishes the Antitumorigenic Effects of the Mitochondrial Gene MTND1, an Oncojanus Function. Cancer Research, 2011, 71, 6220-6229. | 0.4 | 90 |
| 32 | A clinically complex form of dominant optic atrophy (OPA8) maps on chromosome 16. Human Molecular Genetics, 2011, 20, 1893-1905. | 1.4 | 36 |
| 33 | The genetic and metabolic signature of oncocytic transformation implicates HIF1Î± destabilization. Human Molecular Genetics, 2010, 19, 1019-1032. | 1.4 | 113 |
| 34 | The Background of Mitochondrial DNA Haplogroup J Increases the Sensitivity of Leber's Hereditary Optic Neuropathy Cells to 2,5-Hexanedione Toxicity. PLoS ONE, 2009, 4, e7922. | 1.1 | 76 |
| 35 | Respiratory Complex I Dysfunction Due to Mitochondrial DNA Mutations Shifts the Voltage Threshold for Opening of the Permeability Transition Pore toward Resting Levels. Journal of Biological Chemistry, 2009, 284, 2045-2052. | 1.6 | 91 |
| 36 | An inherited mitochondrial DNA disruptive mutation shifts to homoplasmy in oncocytic tumor cells. Human Mutation, 2009, 30, 391-396. | 1.1 | 55 |

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|---|---|---|---|
| 37 | The antioxidant function of Bcl-2 preserves cytoskeletal stability of cells with defective respiratory complex I. Cellular and Molecular Life Sciences, 2008, 65, 2943-2951. | 2.4 | 13 |
| 38 | Protection against Oxidant-Induced Apoptosis by Exogenous Glutathione in Leber Hereditary Optic Neuropathy Cybrids. , 2008, 49, 671. | | 41 |
| 39 | OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. Brain, 2008, 131, 352-367. | 3.7 | 285 |
| 40 | Disruptive mitochondrial DNA mutations in complex I subunits are markers of oncocytic phenotype in thyroid tumors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9001-9006. | 3.3 | 256 |
| 41 | Green Tea Modulates Î±<sub>1</sub>-Adrenergic Stimulated Glucose Transport in Cultured Rat Cardiomyocytes. Journal of Agricultural and Food Chemistry, 2007, 55, 7553-7558. | 2.4 | 7 |
| 42 | Defective Oxidative Phosphorylation in Thyroid Oncocytic Carcinoma Is Associated with Pathogenic Mitochondrial DNA Mutations Affecting Complexes I and III. Cancer Research, 2006, 66, 6087-6096. | 0.4 | 204 |
| 43 | Caspase-independent death of Leberâ€™s hereditary optic neuropathy cybrids is driven by energetic failure and mediated by AIF and Endonuclease G. Apoptosis: an International Journal on Programmed Cell Death, 2005, 10, 997-1007. | 2.2 | 113 |
| 44 | pH difference across the outer mitochondrial membrane measured with a green fluorescent protein mutant. Biochemical and Biophysical Research Communications, 2005, 326, 799-804. | 1.0 | 259 |
| 45 | The ND1 gene of complex I is a mutational hot spot for Leber's hereditary optic neuropathy. Annals of Neurology, 2004, 56, 631-641. | 2.8 | 102 |
| 46 | Bioenergetics shapes cellular death pathways in Leber's hereditary optic neuropathy: a model of mitochondrial neurodegeneration. Biochimica Et Biophysica Acta - Bioenergetics, 2004, 1658, 172-179. | 0.5 | 102 |
| 47 | Apoptotic Cell Death of Cybrid Cells Bearing Leber's Hereditary Optic Neuropathy Mutations Is Caspase Independent. Annals of the New York Academy of Sciences, 2003, 1010, 213-217. | 1.8 | 41 |
| 48 | Staurosporine Induces Apoptotic Volume Decrease (AVD) in ECV304 Cells. Annals of the New York Academy of Sciences, 2003, 1010, 342-346. | 1.8 | 11 |
| 49 | Leber's Hereditary Optic Neuropathy (LHON) Pathogenic Mutations Induce Mitochondrial-dependent Apoptotic Death in Transmitochondrial Cells Incubated with Galactose Medium. Journal of Biological Chemistry, 2003, 278, 4145-4150. | 1.6 | 169 |
| 50 | 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 Cî´. Biochemical Journal, 2002, 366, 187-193. | 1.7 | 11 |
| 51 | 7-Ketocholesterol and staurosporine induce opposite changes in intracellular pH, associated with distinct types of cell death in ECV304 cells. Archives of Biochemistry and Biophysics, 2002, 402, 208-217. | 1.4 | 28 |
| 52 | Phospholipase D stimulation is required for sphingosine-1-phosphate activation of actin stress fibre assembly in human airway epithelial cells. Cellular Signalling, 2002, 14, 75-81. | 1.7 | 41 |
| 53 | 6-Thienyl and 6-phenylimidazo[2,1-b]thiazoles as inhibitors of mitochondrial NADH dehydrogenase. European Journal of Medicinal Chemistry, 1999, 34, 883-889. | 2.6 | 21 |
| 54 | Ubiquinone and inhibitor sites in complex I: one, two or three?. Biochemical Society Transactions, 1999, 27, 606-609. | 1.6 | 14 |

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|---|---|---|---|
| 55 | Measurement of the Membrane Potential Generated by Complex I in Submitochondrial Particles. Journal of Biochemistry, 1997, 121, 746-755. | 0.9 | 17 |
| 56 | Protonophoric Activity of NADH Coenzyme Q Reductase and ATP Synthase in Coupled Submitochondrial Particles from Horse Platelets. Biochemical and Biophysical Research Communications, 1997, 235, 469-473. | 1.0 | 8 |
| 57 | Proton pumping of mitochondrial complex I: differential activation by analogs of ubiquinone. Journal of Bioenergetics and Biomembranes, 1997, 29, 71-80. | 1.0 | 27 |
| 58 | Inhibitor sensitivity of respiratory complex I in human platelets: A possible biomarker of ageing. FEBS Letters, 1996, 380, 176-178. | 1.3 | 47 |
| 59 | The Interaction of Q Analogs, Particularly Hydroxydecyl Benzoquinone (Idebenone), with the Respiratory Complexes of Heart Mitochondria. Archives of Biochemistry and Biophysics, 1996, 330, 395-400. | 1.4 | 101 |
| 60 | The specificity of mitochondrial complex I for ubiquinones. Biochemical Journal, 1996, 313, 327-334. | 1.7 | 87 |
| 61 | Submitochondrial particles as toxicity biosensors of chlorophenols. Environmental Toxicology and Chemistry, 1995, 14, 363-368. | 2.2 | 38 |
| 62 | Thienylimidazo[2,1-b]thiazoles as Inhibitors of Mitochondrial NADH Dehydrogenase. Journal of Medicinal Chemistry, 1995, 38, 1090-1097. | 2.9 | 14 |
| 63 | Thienylvinylindoles as inhibitors of mitochondrial NADH dehydrogenase. Pharmaceutica Acta Helvetiae, 1994, 69, 15-20. | 1.2 | 5 |
| 64 | The mechanism of proton and electron transport in mitochondrial complex I. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1187, 116-120. | 0.5 | 73 |
| 65 | Functional alterations of the mitochondrially encoded ND4 subunit associated with Leber's hereditary optic neuropathy. FEBS Letters, 1994, 352, 375-379. | 1.3 | 119 |
| 66 | Natural variation in the potency and binding sites of mitochondrial quinone-like inhibitors. Biochemical Society Transactions, 1994, 22, 209-213. | 1.6 | 35 |
| 67 | Mitochondrial cytochrome b: evolution and structure of the protein. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1143, 243-271. | 0.5 | 328 |
| 68 | Complex I and Complex III of Mitochondria Have Common Inhibitors Acting as Ubiquinone Antagonists. Biochemical and Biophysical Research Communications, 1993, 190, 1090-1096. | 1.0 | 99 |
| 69 | Cytochrome b of fish mitochondria is strongly resistant to funiculosin, a powerful inhibitor of respiration. Archives of Biochemistry and Biophysics, 1992, 295, 198-204. | 1.4 | 15 |
| 70 | Growth kinetics, polyamine pattern and biosynthesis in hairy root lines of Nicotiana tabacum. Physiologia Plantarum, 1992, 85, 697-703. | 2.6 | 12 |
| 71 | Cytochrome b of protozoan mitochondria: Relationships between function and structure. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 329-338. | 0.2 | 7 |
| 72 | The cytochrome b of the sea urchin Paracentrotus lividus is naturally resistant to myxothiazol and mucidin. FEBS Letters, 1990, 263, 245-247. | 1.3 | 12 |