

# Anna Maria Porcelli

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

3,657  
citations

147726

31  
h-index

133188

59  
g-index

72  
all docs

72  
docs citations

72  
times ranked

5872  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | OPA1 mutations associated with dominant optic atrophy impair oxidative phosphorylation and mitochondrial fusion. <i>Brain</i> , 2008, 131, 352-367.  | 3.7 | 285       |
| 2  | 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       |
| 3  | Disruptive mitochondrial DNA mutations in complex I subunits are markers of oncogenic 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       |
| 4  | 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       |
| 5  | 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       |
| 6  | Non-Canonical Mechanisms Regulating Hypoxia-Inducible Factor 1 Alpha in Cancer. <i>Frontiers in Oncology</i> , 2017, 7, 286.   | 1.3 | 167       |
| 7  | Syndromic parkinsonism and dementia associated with <i>OPA1</i> missense mutations. <i>Annals of Neurology</i> , 2015, 78, 21-38.  | 2.8 | 154       |
| 8  | 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       |
| 9  | The genetic and metabolic signature of oncogenic transformation implicates HIF1 $\alpha$ destabilization. <i>Human Molecular Genetics</i> , 2010, 19, 1019-1032.   | 1.4 | 113       |
| 10 | Learning from oncogenic tumors: Why choose inefficient mitochondria?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 633-642.  | 0.5 | 102       |
| 11 | 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        |
| 12 | 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        |
| 13 | 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        |
| 14 | Relevance of Mitochondrial Genetics and Metabolism in Cancer Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a011411-a011411.  | 2.3 | 88        |
| 15 | The $\alpha$ -ketoglutarate dehydrogenase complex in cancer metabolic plasticity. <i>Cancer &amp; Metabolism</i> , 2017, 5, 3.   | 2.4 | 78        |
| 16 | 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        |
| 17 | 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        |
| 18 | Mitochondrial metabolism and energy sensing in tumor progression. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 582-590.  | 0.5 | 67        |

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|----|---|-----|-----------|
| 19 | The microbial community dwelling on a biodeteriorated 16th century painting. <i>International Biodeterioration and Biodegradation</i> , 2010, 64, 727-733.  | 1.9 | 64        |
| 20 | Complex I impairment in mitochondrial diseases and cancer: Parallel roads leading to different outcomes. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 47-63.   | 1.2 | 59        |
| 21 | The multifaceted effects of metformin on tumor microenvironment. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 90-97.   | 2.3 | 57        |
| 22 | An inherited mitochondrial DNA disruptive mutation shifts to homoplasmy in oncocytic tumor cells. <i>Human Mutation</i> , 2009, 30, 391-396.  | 1.1 | 55        |
| 23 | Inducing cancer indolence by targeting mitochondrial Complex I is potentiated by blocking macrophage-mediated adaptive responses. <i>Nature Communications</i> , 2019, 10, 903.   | 5.8 | 54        |
| 24 | The multifaceted contribution of $\alpha$ -ketoglutarate to tumor progression: An opportunity to exploit?. <i>Seminars in Cell and Developmental Biology</i> , 2020, 98, 26-33.   | 2.3 | 50        |
| 25 | Apoptosis induced by staurosporine in ECV304 cells requires cell shrinkage and upregulation of $Cl^+$ conductance. <i>Cell Death and Differentiation</i> , 2004, 11, 655-662.   | 5.0 | 47        |
| 26 | Peculiar combinations of individually non-pathogenic missense mitochondrial DNA variants cause low penetrance Leber's hereditary optic neuropathy. <i>PLoS Genetics</i> , 2018, 14, e1007210.                                       | 1.5 | 47        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | Protection against Oxidant-Induced Apoptosis by Exogenous Glutathione in Leber Hereditary Optic Neuropathy Cybrids. , 2008, 49, 671.  |     | 41        |
| 31 | Defective ciliogenesis in thyroid h $\frac{1}{4}$ rthle cell tumors is associated with increased autophagy. <i>Oncotarget</i> , 2016, 7, 79117-79130.   | 0.8 | 37        |
| 32 | Plasma-activated Ringer's Lactate Solution Displays a Selective Cytotoxic Effect on Ovarian Cancer Cells. <i>Cancers</i> , 2020, 12, 476.   | 1.7 | 36        |
| 33 | Mutant MYO1F alters the mitochondrial network and induces tumor proliferation in thyroid cancer. <i>International Journal of Cancer</i> , 2018, 143, 1706-1719.   | 2.3 | 35        |
| 34 | Evidence of association of human papillomavirus with prognosis worsening in glioblastoma multiforme. <i>Neuro-Oncology</i> , 2014, 16, 298-302.   | 0.6 | 34        |
| 35 | 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        |
| 36 | Targeting respiratory complex I to prevent the Warburg effect. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 63, 41-45.   | 1.2 | 28        |

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|----|---|-----|-----------|
| 37 | Dysregulation of Parkin-mediated mitophagy in thyroid H <sub>2</sub> O <sub>2</sub> cell tumors. <i>Carcinogenesis</i> , 2015, 36, 1407-1418.   | 1.3 | 25        |
| 38 | Mice harbouring a SCA28 patient mutation in AFG3L2 develop late-onset ataxia associated with enhanced mitochondrial proteotoxicity. <i>Neurobiology of Disease</i> , 2019, 124, 14-28.  | 2.1 | 23        |
| 39 | A comprehensive characterization of mitochondrial DNA mutations in glioblastoma multiforme. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 63, 46-54.  | 1.2 | 22        |
| 40 | The Oncojanus Paradigm of Respiratory Complex I. <i>Genes</i> , 2018, 9, 243.   | 1.0 | 22        |
| 41 | Platinum-induced mitochondrial DNA mutations confer lower sensitivity to paclitaxel by impairing tubulin cytoskeletal organization. <i>Human Molecular Genetics</i> , 2017, 26, 2961-2974.  | 1.4 | 20        |
| 42 | 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        |
| 43 | Molecular and metabolic features of oncocytomas: Seeking the blueprints of indolent cancers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 591-601.  | 0.5 | 17        |
| 44 | Sphingosylphosphorylcholine and sphingosine-1-phosphate mobilize cytosolic calcium through different mechanisms in human airway epithelial cells. <i>Cell Calcium</i> , 1998, 23, 387-394.  | 1.1 | 15        |
| 45 | Deep sequencing unearths Nuclear mitochondrial Sequences under Leber's hereditary optic neuropathy-associated false heteroplasmic mitochondrial DNA variants. <i>Human Molecular Genetics</i> , 2012, 21, 3753-3764.              | 1.4 | 15        |
| 46 | Potential for Mitochondrial DNA Sequencing in the Differential Diagnosis of Gynaecological Malignancies. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2048.   | 1.8 | 15        |
| 47 | Genome-wide expression profiling and functional characterization of SCA28 lymphoblastoid cell lines reveal impairment in cell growth and activation of apoptotic pathways. <i>BMC Medical Genomics</i> , 2013, 6, 22.             | 0.7 | 14        |
| 48 | 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        |
| 49 | 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        |
| 50 | NDUFS3 depletion permits complex I maturation and reveals TMEM126A/OPA7 as an assembly factor binding the ND4-module intermediate. <i>Cell Reports</i> , 2021, 35, 109002.  | 2.9 | 13        |
| 51 | Role of CFTR and anion exchanger in bicarbonate fluxes in C127 cell lines. <i>FEBS Letters</i> , 1998, 440, 268-272.  | 1.3 | 12        |
| 52 | 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        |
| 53 | Mitochondrial DNA sequencing demonstrates clonality of peritoneal implants of borderline ovarian tumors. <i>Molecular Cancer</i> , 2017, 16, 47.  | 7.9 | 11        |
| 54 | Lithium and Not Acetoacetate Influences the Growth of Cells Treated with Lithium Acetoacetate. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3104.   | 1.8 | 10        |

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|----|--|-----|-----------|
| 55 | Potential Prognostic Role of 18F-FDG PET/CT in Invasive Epithelial Ovarian Cancer Relapse. A Preliminary Study. <i>Cancers</i> , 2019, 11, 713.  | 1.7 | 10        |
| 56 | Analysis of the mitochondrial proteome of cybrid cells harbouring a truncative mitochondrial DNA mutation in respiratory complex I. <i>Molecular BioSystems</i> , 2014, 10, 1313.  | 2.9 | 8         |
| 57 | A Humanized Bone Niche Model Reveals Bone Tissue Preservation Upon Targeting Mitochondrial Complex I in Pseudo-Orthotopic Osteosarcoma. <i>Journal of Clinical Medicine</i> , 2019, 8, 2184.   | 1.0 | 8         |
| 58 | Electrochemotherapy in Vulvar Cancer and Cisplatin Combined with Electroporation. Systematic Review and In Vitro Studies. <i>Cancers</i> , 2021, 13, 1993.   | 1.7 | 8         |
| 59 | Intracellular pH regulation in U-2 OS human osteosarcoma cells transfected with P-glycoprotein. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1542, 125-138.  | 1.9 | 7         |
| 60 | A platform independent RNA-Seq protocol for the detection of transcriptome complexity. <i>BMC Genomics</i> , 2013, 14, 855.  | 1.2 | 7         |
| 61 | A Nonsense Mitochondrial DNA Mutation Associates with Dysfunction of HIF1 $\alpha$ in a Von Hippel-Lindau Renal Oncocytoma. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-5.  | 1.9 | 6         |
| 62 | Respiratory Complex I dysfunction in cancer: from a maze of cellular adaptive responses to potential therapeutic strategies. <i>FEBS Journal</i> , 2022, 289, 8003-8019.   | 2.2 | 6         |
| 63 | High-resolution genomic profiling of thyroid lesions uncovers preferential copy number gains affecting mitochondrial biogenesis loci in the oncocytic variants. <i>American Journal of Cancer Research</i> , 2015, 5, 1954-71.           | 1.4 | 6         |
| 64 | Mild phenotypes and proper supercomplex assembly in human cells carrying the homoplasmic m.15557G>A mutation in cytochrome <i>b</i> gene. <i>Human Mutation</i> , 2018, 39, 92-102.  | 1.1 | 5         |
| 65 | The phorbol ester PMA and cyclic AMP activate different Cl <sup>-</sup> and HCO <sub>3</sub> <sup>-</sup> fluxes in C127 cells expressing CFTR. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2001, 1535, 120-127. | 1.8 | 3         |
| 66 | The Neglected Liaison: Targeting Cancer Cell Metabolic Reprogramming Modifies the Composition of Non-Malignant Populations of the Tumor Microenvironment. <i>Cancers</i> , 2021, 13, 5447.   | 1.7 | 3         |
| 67 | A unique combination of rare mitochondrial ribosomal RNA variants affects the kinetics of complex I assembly. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 117-122.   | 1.2 | 2         |
| 68 | Dansyl acetyl trehalose: a novel tool to investigate the cellular fate of trehalose. <i>RSC Advances</i> , 2019, 9, 15350-15356.   | 1.7 | 2         |
| 69 | Inducing respiratory complex I impairment elicits an increase in PGC1 $\alpha$ in ovarian cancer. <i>Scientific Reports</i> , 2022, 12, 8020.  | 1.6 | 2         |
| 70 | Pathogenic Mitochondrial DNA Mutation Load Inversely Correlates with Malignant Features in Familial Oncocytic Parathyroid Tumors Associated with Hyperparathyroidism-Jaw Tumor Syndrome. <i>Cells</i> , 2021, 10, 2920.                  | 1.8 | 1         |
| 71 | mtDNA mutations in cancer. , 2020, , 443-480.  |     | 0         |