

Flavia Fontanesi

List of Publications by Year in descending order

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48
papers

2,964
citations

172457

29
h-index

233421

45
g-index

49
all docs

49
docs citations

49
times ranked

4026
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial Complex I Plays an Essential Role in Human Respirasome Assembly. <i>Cell Metabolism</i> , 2012, 15, 324-335.	16.2	234
2	Assembly of mitochondrial cytochrome c oxidase, a complicated and highly regulated cellular process. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C1129-C1147.	4.6	214
3	Biogenesis and assembly of eukaryotic cytochrome c oxidase catalytic core. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 883-897.	1.0	202
4	Evaluation of the Mitochondrial Respiratory Chain and Oxidative Phosphorylation System Using Polarography and Spectrophotometric Enzyme Assays. <i>Current Protocols in Human Genetics</i> , 2009, 63, Unit19.3.	3.5	178
5	Mutations in SLC25A46, encoding a UGO1-like protein, cause an optic atrophy spectrum disorder. <i>Nature Genetics</i> , 2015, 47, 926-932.	21.4	166
6	Complete loss-of-function of the heart/muscle-specific adenine nucleotide translocator is associated with mitochondrial myopathy and cardiomyopathy. <i>Human Molecular Genetics</i> , 2005, 14, 3079-3088.	2.9	165
7	Mitochondrial ribosome assembly in health and disease. <i>Cell Cycle</i> , 2015, 14, 2226-2250.	2.6	157
8	Cytochrome c oxidase biogenesis: New levels of regulation. <i>IUBMB Life</i> , 2008, 60, 557-568.	3.4	143
9	ATP-binding cassette A1 deficiency causes cardiolipin-driven mitochondrial dysfunction in podocytes. <i>Journal of Clinical Investigation</i> , 2019, 129, 3387-3400.	8.2	103
10	Suppression mechanisms of COX assembly defects in yeast and human: Insights into the COX assembly process. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 97-107.	4.1	91
11	Mss51 and Ssc1 Facilitate Translational Regulation of Cytochrome c Oxidase Biogenesis. <i>Molecular and Cellular Biology</i> , 2010, 30, 245-259.	2.3	72
12	Mutations in AAC2, equivalent to human adPEO-associated ANT1 mutations, lead to defective oxidative phosphorylation in <i>Saccharomyces cerevisiae</i> and affect mitochondrial DNA stability. <i>Human Molecular Genetics</i> , 2004, 13, 923-934.	2.9	71
13	Respiratory supercomplexes enhance electron transport by decreasing cytochrome c oxidase diffusion distance. <i>EMBO Reports</i> , 2020, 21, e51015.	4.5	71
14	Cox25 Teams Up with Mss51, Ssc1, and Cox14 to Regulate Mitochondrial Cytochrome c Oxidase Subunit 1 Expression and Assembly in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 555-566.	3.4	69
15	A Heme-Sensing Mechanism in the Translational Regulation of Mitochondrial Cytochrome c Oxidase Biogenesis. <i>Cell Metabolism</i> , 2012, 16, 801-813.	16.2	66
16	Redox and Reactive Oxygen Species Regulation of Mitochondrial Cytochrome c Oxidase Biogenesis. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1940-1952.	5.4	55
17	Human COX7A2L Regulates Complex III Biogenesis and Promotes Supercomplex Organization Remodeling without Affecting Mitochondrial Bioenergetics. <i>Cell Reports</i> , 2018, 25, 1786-1799.e4.	6.4	55
18	Aberrant Translation of Cytochrome c Oxidase Subunit 1 mRNA Species in the Absence of Mss51p in the Yeast <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2007, 18, 523-535.	2.1	54

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19	Multiple pathways coordinate assembly of human mitochondrial complex IV and stabilization of respiratory supercomplexes. <i>EMBO Journal</i> , 2020, 39, e103912.	7.8	54
20	The DEAD-box helicase Mss116 plays distinct roles in mitochondrial ribogenesis and mRNA-specific translation. <i>Nucleic Acids Research</i> , 2017, 45, 6628-6643.	14.5	53
21	Evaluation of the Mitochondrial Respiratory Chain and Oxidative Phosphorylation System Using Blue Native Gel Electrophoresis. <i>Current Protocols in Human Genetics</i> , 2009, 63, Unit19.4.	3.5	49
22	hCOA3 Stabilizes Cytochrome c Oxidase 1 (COX1) and Promotes Cytochrome c Oxidase Assembly in Human Mitochondria. <i>Journal of Biological Chemistry</i> , 2013, 288, 8321-8331.	3.4	46
23	Transcriptional activators HAP/NF-Y rescue a cytochrome c oxidase defect in yeast and human cells. <i>Human Molecular Genetics</i> , 2008, 17, 775-788.	2.9	45
24	Defects in mitochondrial fatty acid synthesis result in failure of multiple aspects of mitochondrial biogenesis in <i>Saccharomyces cerevisiae</i> . <i>Molecular Microbiology</i> , 2013, 90, 824-840.	2.5	45
25	The DEAD Box Protein Mrh4 Functions in the Assembly of the Mitochondrial Large Ribosomal Subunit. <i>Cell Metabolism</i> , 2013, 18, 712-725.	16.2	43
26	Obesity-Dependent Adipokine Chemerin Suppresses Fatty Acid Oxidation to Confer Ferroptosis Resistance. <i>Cancer Discovery</i> , 2021, 11, 2072-2093.	9.4	43
27	Synthesis of cytochrome c oxidase subunit 1 is translationally downregulated in the absence of functional F1F0-ATP synthase. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1776-1786.	4.1	40
28	Molecular identification and functional characterization of a novel glutamate transporter in yeast and plant mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1249-1258.	1.0	39
29	Carboxylic acids permeases in yeast: two genes in <i>Kluyveromyces lactis</i> . <i>Gene</i> , 2004, 339, 111-119.	2.2	33
30	Elongator-dependent modification of cytoplasmic tRNA ^{Lys} _{UUU} is required for mitochondrial function under stress conditions. <i>Nucleic Acids Research</i> , 2015, 43, 8368-8380.	14.5	30
31	Insights into the genotype-phenotype correlation and molecular function of SLC25A46. <i>Human Mutation</i> , 2018, 39, 1995-2007.	2.5	30
32	Mechanisms of mitochondrial translational regulation. <i>IUBMB Life</i> , 2013, 65, 397-408.	3.4	29
33	The Vicious Cycle of Renal Lipotoxicity and Mitochondrial Dysfunction. <i>Frontiers in Physiology</i> , 2020, 11, 732.	2.8	29
34	APOL1 risk variants affect podocyte lipid homeostasis and energy production in focal segmental glomerulosclerosis. <i>Human Molecular Genetics</i> , 2021, 30, 182-197.	2.9	27
35	HIGD-Driven Regulation of Cytochrome c Oxidase Biogenesis and Function. <i>Cells</i> , 2020, 9, 2620.	4.1	22
36	Regulation of Mitochondrial Respiratory Chain Complex Levels, Organization, and Function by Arginyltransferase 1. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 603688.	3.7	19

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37	The mitoribosome-specific protein mS38 is preferentially required for synthesis of cytochrome c oxidase subunits. <i>Nucleic Acids Research</i> , 2019, 47, 5746-5760.	14.5	18
38	Protocol for the Analysis of Yeast and Human Mitochondrial Respiratory Chain Complexes and Supercomplexes by Blue Native Electrophoresis. <i>STAR Protocols</i> , 2020, 1, 100089.	1.2	18
39	Mutation D104G in ANT1 gene: Complementation study in <i>Saccharomyces cerevisiae</i> as a model system. <i>Biochemical and Biophysical Research Communications</i> , 2006, 341, 810-815.	2.1	17
40	The translational activator Sov1 coordinates mitochondrial gene expression with mitoribosome biogenesis. <i>Nucleic Acids Research</i> , 2020, 48, 6759-6774.	14.5	15
41	Evaluation of the Mitochondrial Respiratory Chain and Oxidative Phosphorylation System Using Yeast Models of OXPHOS Deficiencies. <i>Current Protocols in Human Genetics</i> , 2009, 63, Unit19.5.	3.5	14
42	Bot1p Is Required for Mitochondrial Translation, Respiratory Function, and Normal Cell Morphology in the Fission Yeast <i>Schizosaccharomyces pombe</i> . <i>Eukaryotic Cell</i> , 2008, 7, 619-629.	3.4	12
43	Exploring Protein-Protein Interactions Involving Newly Synthesized Mitochondrial DNA-Encoded Proteins. <i>Methods in Molecular Biology</i> , 2008, 457, 125-139.	0.9	7
44	Heterologous complementation of the <i>Klaacnull</i> mutation of <i>Kluyveromyces lactis</i> by the <i>Saccharomyces cerevisiae</i> AAC3 gene encoding the ADP/ATP carrier. <i>FEMS Yeast Research</i> , 2006, 6, 414-420.	2.3	6
45	The evolutionarily conserved arginyltransferase 1 mediates a pVHL-independent oxygen-sensing pathway in mammalian cells. <i>Developmental Cell</i> , 2022, 57, 654-669.e9.	7.0	5
46	Mitochondrial Cytochrome c Oxidase Assembly in Health and Human Diseases. , 2013, , 239-259.		3
47	Human mitochondrial transcription and translation. , 2020, , 35-70.		0
48	Ate1 Controls Cellular Warburg Effects by Modifying Hif1a with Arginylation. <i>FASEB Journal</i> , 2019, 33, 1b312.	0.5	0