

Antonio Barrientos

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

6,037
citations

66343

42
h-index

74163

75
g-index

92
all docs

92
docs citations

92
times ranked

6956
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordination of metal center biogenesis in human cytochrome c oxidase. <i>Nature Communications</i> , 2022, 13, .	12.8	28
2	The Diseased Mitoribosome. <i>FEBS Letters</i> , 2021, 595, 1025-1061.	2.8	42
3	Mechanism of membrane-tethered mitochondrial protein synthesis. <i>Science</i> , 2021, 371, 846-849.	12.6	76
4	Salvage NAD ⁺ biosynthetic pathway enzymes moonlight as molecular chaperones to protect against proteotoxicity. <i>Human Molecular Genetics</i> , 2021, 30, 672-686.	2.9	3
5	Role of GTPases in Driving Mitoribosome Assembly. <i>Trends in Cell Biology</i> , 2021, 31, 284-297.	7.9	24
6	Reevaluating the role of human mitochondrial uL18m in the cytosolic stress response. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 474-475.	8.2	0
7	Functional Analyses of Mitoribosome 54S Subunit Devoid of Mitochondria-specific Protein Sequences. <i>Yeast</i> , 2021, , .	1.7	5
8	Sucrose Gradient Sedimentation Analysis of Mitochondrial Ribosomes. <i>Methods in Molecular Biology</i> , 2021, 2192, 211-226.	0.9	7
9	ATAD3A has a scaffolding role regulating mitochondria inner membrane structure and protein assembly. <i>Cell Reports</i> , 2021, 37, 110139.	6.4	34
10	The Existence of MTH1-independent 8-oxodGTPase Activity in Cancer Cells as a Compensatory Mechanism against On-target Effects of MTH1 Inhibitors. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 432-446.	4.1	11
11	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
12	Human GTPBP5 (MTG2) fuels mitoribosome large subunit maturation by facilitating 16S rRNA methylation. <i>Nucleic Acids Research</i> , 2020, 48, 7924-7943.	14.5	32
13	Distinct Roles of Mitochondrial HIGD1A and HIGD2A in Respiratory Complex and Supercomplex Biogenesis. <i>Cell Reports</i> , 2020, 31, 107607.	6.4	49
14	Human mitochondrial transcription and translation. , 2020, , 35-70.		0
15	Multiple pathways coordinate assembly of human mitochondrial complex IV and stabilization of respiratory supercomplexes. <i>EMBO Journal</i> , 2020, 39, e103912.	7.8	54
16	HIGD-Driven Regulation of Cytochrome c Oxidase Biogenesis and Function. <i>Cells</i> , 2020, 9, 2620.	4.1	22
17	Respiratory supercomplexes enhance electron transport by decreasing cytochrome <i>c</i> diffusion distance. <i>EMBO Reports</i> , 2020, 21, e51015.	4.5	71
18	Cell size dependent migration of T-cells latently infected with HIV. <i>Journal of Life Sciences (Westlake)</i> Tj ETQq0 0 0 18 /Overlock 10 Tt		2

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19	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
20	Mitochondrial MTG1 is necessary for proper human cardiomyocyte activity and zebrafish cardiac development. Comment to "Novel role of mitochondrial GTPases 1 in pathological cardiac hypertrophy". <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 129, 1.	1.9	0
21	Ate1 Controls Cellular Warburg Effects by Modifying Hif1a with Arginylation. <i>FASEB Journal</i> , 2019, 33, lb312.	0.5	0
22	Yeast Mitoribosome Large Subunit Assembly Proceeds by Hierarchical Incorporation of Protein Clusters and Modules on the Inner Membrane. <i>Cell Metabolism</i> , 2018, 27, 645-656.e7.	16.2	53
23	Mitochondrial cytochrome c oxidase biogenesis: Recent developments. <i>Seminars in Cell and Developmental Biology</i> , 2018, 76, 163-178.	5.0	225
24	Mitochondrial ribosome bL34 mutants present diminished translation of cytochrome c oxidase subunits. <i>Cell Biology International</i> , 2018, 42, 630-642.	3.0	7
25	Exploiting Post-mitotic Yeast Cultures to Model Neurodegeneration. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 400.	2.9	13
26	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
27	Guidelines and recommendations on yeast cell death nomenclature. <i>Microbial Cell</i> , 2018, 5, 4-31.	3.2	158
28	Human GTPBP10 is required for mitoribosome maturation. <i>Nucleic Acids Research</i> , 2018, 46, 11423-11437.	14.5	45
29	MTG1 couples mitoribosome large subunit assembly with intersubunit bridge formation. <i>Nucleic Acids Research</i> , 2018, 46, 8435-8453.	14.5	43
30	Posttranslational arginylation enzyme Ate1 is a mitochondrial-derived master regulator that coordinates glycolysis and respiration in the Warburg effect. <i>FASEB Journal</i> , 2018, 32, 791.19.	0.5	0
31	A CMC1 knockout reveals translation-independent control of human mitochondrial complex IV biogenesis. <i>EMBO Reports</i> , 2017, 18, 477-494.	4.5	56
32	Mitochondrial ribosomes in cancer. <i>Seminars in Cancer Biology</i> , 2017, 47, 67-81.	9.6	127
33	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
34	Human mitochondrial cytochrome c oxidase assembly factor COX18 acts transiently as a membrane insertase within the subunit 2 maturation module. <i>Journal of Biological Chemistry</i> , 2017, 292, 7774-7783.	3.4	51
35	Attenuation of polyglutamine-induced toxicity by enhancement of mitochondrial OXPHOS in yeast and fly models of aging. <i>Microbial Cell</i> , 2016, 3, 338-351.	3.2	15
36	Mitochondrial Cytochrome c Oxidase Biogenesis Is Regulated by the Redox State of a Heme-Binding Translational Activator. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 281-298.	5.4	19

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37	Mitochondrial ribosome assembly in health and disease. <i>Cell Cycle</i> , 2015, 14, 2226-2250.	2.6	157
38	The Human Mitochondrial DEAD-Box Protein DDX28 Resides in RNA Granules and Functions in Mitoribosome Assembly. <i>Cell Reports</i> , 2015, 10, 854-864.	6.4	109
39	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
40	Dietary restriction, mitochondrial function and aging: from yeast to humans. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1434-1447.	1.0	111
41	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
42	Mia40 Protein Serves as an Electron Sink in the Mia40-Erv1 Import Pathway. <i>Journal of Biological Chemistry</i> , 2015, 290, 20804-20814.	3.4	12
43	Mitochondriolus: assembling mitoribosomes. <i>Oncotarget</i> , 2015, 6, 16800-16801.	1.8	11
44	Human COX20 cooperates with SCO1 and SCO2 to mature COX2 and promote the assembly of cytochrome c oxidase. <i>Human Molecular Genetics</i> , 2014, 23, 2901-2913.	2.9	82
45	A mitochondrial CO ₂ adenyl cyclase cAMP signalosome controls yeast normoxic cytochrome c oxidase activity. <i>FASEB Journal</i> , 2014, 28, 4369-4380.	0.5	35
46	I Function, Therefore I Am: Overcoming Skepticism about Mitochondrial Supercomplexes. <i>Cell Metabolism</i> , 2013, 18, 147-149.	16.2	26
47	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
48	Mitochondrial Cytochrome c Oxidase Assembly in Health and Human Diseases. , 2013, , 239-259.		3
49	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
50	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
51	Transcriptional Regulation of Yeast Oxidative Phosphorylation Hypoxic Genes by Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1916-1927.	5.4	29
52	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
53	NAD ⁺ salvage pathway proteins suppress proteotoxicity in yeast models of neurodegeneration by promoting the clearance of misfolded/oligomerized proteins. <i>Human Molecular Genetics</i> , 2013, 22, 1699-1708.	2.9	42
54	HIV-1 Infection Is Blocked at an Early Stage in Cells Devoid of Mitochondrial DNA. <i>PLoS ONE</i> , 2013, 8, e78035.	2.5	5

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55	Role of Twin Cys-Xaa9-Cys Motif Cysteines in Mitochondrial Import of the Cytochrome c Oxidase Biogenesis Factor Cmc1. <i>Journal of Biological Chemistry</i> , 2012, 287, 31258-31269.	3.4	23
56	Mitochondrial Complex I Plays an Essential Role in Human Respirasome Assembly. <i>Cell Metabolism</i> , 2012, 15, 324-335.	16.2	234
57	Mitochondrial Respiratory Thresholds Regulate Yeast Chronological Life Span and its Extension by Caloric Restriction. <i>Cell Metabolism</i> , 2012, 16, 55-67.	16.2	156
58	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
59	Biogenesis and assembly of eukaryotic cytochrome c oxidase catalytic core. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 883-897.	1.0	202
60	Complementary roles of mitochondrial respiration and ROS signaling on cellular aging and longevity. <i>Aging</i> , 2012, 4, 578-579.	3.1	10
61	Regulation of Yeast Chronological Life Span by TORC1 via Adaptive Mitochondrial ROS Signaling. <i>Cell Metabolism</i> , 2011, 13, 668-678.	16.2	273
62	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
63	The Conserved Mitochondrial Twin Cx9C Protein Cmc2 Is a Cmc1 Homologue Essential for Cytochrome c Oxidase Biogenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 15088-15099.	3.4	34
64	Suppression of polyglutamine-induced cytotoxicity in <i>Saccharomyces cerevisiae</i> by enhancement of mitochondrial biogenesis. <i>FASEB Journal</i> , 2010, 24, 1431-1441.	0.5	43
65	Mss51 and Ssc1 Facilitate Translational Regulation of Cytochrome c Oxidase Biogenesis. <i>Molecular and Cellular Biology</i> , 2010, 30, 245-259.	2.3	72
66	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
67	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
68	Synthesis of cytochrome c oxidase subunit 1 is translationally downregulated in the absence of functional F1FO-ATP synthase. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1776-1786.	4.1	40
69	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
70	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
71	Mitochondrial copper metabolism and delivery to cytochrome c oxidase. <i>IUBMB Life</i> , 2008, 60, 421-429.	3.4	199
72	Cytochrome c oxidase biogenesis: New levels of regulation. <i>IUBMB Life</i> , 2008, 60, 557-568.	3.4	143

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73	Cmc1p Is a Conserved Mitochondrial Twin CX ₉ C Protein Involved in Cytochrome c Oxidase Biogenesis. <i>Molecular and Cellular Biology</i> , 2008, 28, 4354-4364.	2.3	53
74	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
75	Exploring Protein-Protein Interactions Involving Newly Synthesized Mitochondrial DNA-Encoded Proteins. <i>Methods in Molecular Biology</i> , 2008, 457, 125-139.	0.9	7
76	Aberrant Translation of CytochromecOxidase 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
77	Assembly of mitochondrial cytochromec-oxidase, a complicated and highly regulated cellular process. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 291, C1129-C1147.	4.6	214
78	Cytotoxicity of a mutant huntingtin fragment in yeast involves early alterations in mitochondrial OXPHOS complexes II and III. <i>Human Molecular Genetics</i> , 2006, 15, 3063-3081.	2.9	129
79	Mss51p and Cox14p jointly regulate mitochondrial Cox1p expression in <i>Saccharomyces cerevisiae</i> . <i>EMBO Journal</i> , 2004, 23, 3472-3482.	7.8	179
80	COX16 Encodes a Novel Protein Required for the Assembly of Cytochrome Oxidase in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 3770-3775.	3.4	35
81	MTG1 Codes for a Conserved Protein Required for Mitochondrial Translation. <i>Molecular Biology of the Cell</i> , 2003, 14, 2292-2302.	2.1	64
82	Cytochrome Oxidase Assembly Does Not Require Catalytically Active Cytochrome c. <i>Journal of Biological Chemistry</i> , 2003, 278, 8881-8887.	3.4	34
83	In vivo and in organello assessment of OXPHOS activities. <i>Methods</i> , 2002, 26, 307-316.	3.8	222
84	Cytochrome oxidase in health and disease. <i>Gene</i> , 2002, 286, 53-63.	2.2	175
85	Shy1p is necessary for full expression of mitochondrial COX1 in the yeast model of Leigh's syndrome. <i>EMBO Journal</i> , 2002, 21, 43-52.	7.8	149
86	In Vivo Regulation of Oxidative Phosphorylation in Cells Harboring a Stop-codon Mutation in Mitochondrial DNA-encoded Cytochrome c Oxidase Subunit I. <i>Journal of Biological Chemistry</i> , 2001, 276, 46925-46932.	3.4	66
87	A mutation in the human heme A:farnesyltransferase gene (COX10) causes cytochrome c oxidase deficiency. <i>Human Molecular Genetics</i> , 2000, 9, 1245-1249.	2.9	261
88	Simultaneous Transfer of Mitochondrial DNA and Single Chromosomes in Somatic Cells: A Novel Approach for the Study of Defects in Nuclear-Mitochondrial Communication. <i>Human Molecular Genetics</i> , 1998, 7, 1801-1808.	2.9	17