

Gino A Cortopassi

List of Publications by Year in descending order

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102
papers

8,297
citations

61857

43
h-index

46693

89
g-index

104
all docs

104
docs citations

104
times ranked

8769
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondrial ribosomal RNA mutation associated with both antibiotic-induced and non-syndromic deafness. <i>Nature Genetics</i> , 1993, 4, 289-294.	9.4	1,123
2	Detection of a specific mitochondrial DNA deletion in tissues of older humans. <i>Nucleic Acids Research</i> , 1990, 18, 6927-6933.	6.5	764
3	A simple method for site-directed mutagenesis using the polymerase chain reaction. <i>Nucleic Acids Research</i> , 1989, 17, 6545-6551.	6.5	652
4	Mosaicism for a specific somatic mitochondrial DNA mutation in adult human brain. <i>Nature Genetics</i> , 1992, 2, 318-323.	9.4	405
5	A Ketogenic Diet Extends Longevity and Healthspan in Adult Mice. <i>Cell Metabolism</i> , 2017, 26, 539-546.e5.	7.2	348
6	A Molecular basis for human hypersensitivity of aminoglycoside antibiotics. <i>Nucleic Acids Research</i> , 1993, 21, 4174-4179.	6.5	231
7	Induction of the Mitochondrial Permeability Transition Causes Release of the Apoptogenic Factor Cytochrome c. <i>Free Radical Biology and Medicine</i> , 1998, 24, 624-631.	1.3	203
8	Deleterious mitochondrial DNA mutations accumulate in aging human tissues. <i>Mutation Research - DNAging</i> , 1992, 275, 157-167.	3.3	187
9	Pyrrroloquinoline Quinone Stimulates Mitochondrial Biogenesis through cAMP Response Element-binding Protein Phosphorylation and Increased PGC-1 α Expression. <i>Journal of Biological Chemistry</i> , 2010, 285, 142-152.	1.6	187
10	Differentiation-specific effects of LHON mutations introduced into neuronal NT2 cells. <i>Human Molecular Genetics</i> , 2002, 11, 431-438.	1.4	157
11	OPA1 Mutation and Late-onset Cardiomyopathy: Mitochondrial Dysfunction and mtDNA Instability. <i>Journal of the American Heart Association</i> , 2012, 1, e003012.	1.6	156
12	Mitochondrial frataxin interacts with ISD11 of the NFS1/ISCU complex and multiple mitochondrial chaperones. <i>Human Molecular Genetics</i> , 2007, 16, 929-941.	1.4	152
13	Genetic basis for susceptibility to noise-induced hearing loss in mice. <i>Hearing Research</i> , 2001, 155, 82-90.	0.9	146
14	Frataxin Deficiency Leads to Defects in Expression of Antioxidants and Nrf2 Expression in Dorsal Root Ganglia of the Friedreich's Ataxia YG8R Mouse Model. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1481-1493.	2.5	127
15	Cells Bearing Mutations Causing Leber's Hereditary Optic Neuropathy Are Sensitized to Fas-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 5810-5815.	1.6	122
16	Cell functions impaired by frataxin deficiency are restored by drug-mediated iron relocation. <i>Blood</i> , 2008, 112, 5219-5227.	0.6	120
17	Oxidative stress in inherited mitochondrial diseases. <i>Free Radical Biology and Medicine</i> , 2015, 88, 10-17.	1.3	118
18	Deficient repair of chemical adducts in λ DNA of monkey cells. <i>Cell</i> , 1982, 28, 613-619.	13.5	108

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19	Frataxin deficiency alters heme pathway transcripts and decreases mitochondrial heme metabolites in mammalian cells. <i>Human Molecular Genetics</i> , 2005, 14, 3787-3799.	1.4	98
20	Frataxin, Iron-Sulfur Clusters, Heme, ROS, and Aging. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 506-516.	2.5	96
21	Frataxin knockdown causes loss of cytoplasmic iron-sulfur cluster functions, redox alterations and induction of heme transcripts. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 111-122.	1.4	94
22	Dimethyl fumarate mediates Nrf2-dependent mitochondrial biogenesis in mice and humans. <i>Human Molecular Genetics</i> , 2017, 26, 2864-2873.	1.4	94
23	Oligodendroglial differentiation induces mitochondrial genes and inhibition of mitochondrial function represses oligodendroglial differentiation. <i>Mitochondrion</i> , 2010, 10, 143-150.	1.6	85
24	Frataxin expression rescues mitochondrial dysfunctions in FRDA cells. <i>Human Molecular Genetics</i> , 2001, 10, 2099-2107.	1.4	84
25	mtDNA Mutations Confer Cellular Sensitivity to Oxidant Stress That Is Partially Rescued by Calcium Depletion and Cyclosporin A. <i>Biochemical and Biophysical Research Communications</i> , 1997, 239, 139-145.	1.0	81
26	The Eye Drop Preservative Benzalkonium Chloride Potently Induces Mitochondrial Dysfunction and Preferentially Affects LHON Mutant Cells. , 2017, 58, 2406.		79
27	Frataxin deficiency induces Schwann cell inflammation and death. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 1052-1061.	1.8	76
28	Decreased expression of genes involved in sulfur amino acid metabolism in frataxin-deficient cells. <i>Human Molecular Genetics</i> , 2003, 12, 1699-1711.	1.4	75
29	Lactate and Pyruvate Are Major Sources of Energy for Stallion Sperm with Dose Effects on Mitochondrial Function, Motility, and ROS Production. <i>Biology of Reproduction</i> , 2016, 95, 34-34.	1.2	72
30	Inhibition of mitochondrial function induces an integrated stress response in oligodendroglia. <i>Neurobiology of Disease</i> , 2009, 34, 357-365.	2.1	71
31	Dysregulation of Glutamine Transporter SNAT1 in Rett Syndrome Microglia: A Mechanism for Mitochondrial Dysfunction and Neurotoxicity. <i>Journal of Neuroscience</i> , 2015, 35, 2516-2529.	1.7	71
32	The p66 ^{Shc} knockout mice are short lived under natural condition. <i>Aging Cell</i> , 2012, 11, 162-168.	3.0	70
33	Dyclonine rescues frataxin deficiency in animal models and buccal cells of patients with Friedreich's ataxia. <i>Human Molecular Genetics</i> , 2014, 23, 6848-6862.	1.4	66
34	Galectin-3 regulates inflammasome activation in cholestatic liver injury. <i>FASEB Journal</i> , 2016, 30, 4202-4213.	0.2	62
35	A molecular and cellular hypothesis for aminoglycoside-induced deafness. <i>Hearing Research</i> , 1994, 78, 27-30.	0.9	59
36	Mitochondrial disease activates transcripts of the unfolded protein response and cell cycle and inhibits vesicular secretion and oligodendrocyte-specific transcripts. <i>Mitochondrion</i> , 2006, 6, 161-175.	1.6	59

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37	Analysis of oxygen consumption and mitochondrial permeability with age in mice. Mechanisms of Ageing and Development, 1998, 101, 245-256.	2.2	58
38	Mitochondrial oxygen consumption is a unique indicator of stallion spermatozoal health and varies with cryopreservation media. Theriogenology, 2016, 86, 1382-1392.	0.9	57
39	Cellular Characterization of Leukotoxin Diol-Induced Mitochondrial Dysfunction. Archives of Biochemistry and Biophysics, 2001, 392, 32-37.	1.4	56
40	The Shc locus regulates insulin signaling and adiposity in mammals. Aging Cell, 2011, 10, 55-65.	3.0	55
41	Decreased Superoxide Production in Macrophages of Long-lived p66Shc Knock-out Mice. Journal of Biological Chemistry, 2010, 285, 1153-1165.	1.6	51
42	Mitochondrial DNA deletions inhibit proteasomal activity and stimulate an autophagic transcript. Free Radical Biology and Medicine, 2007, 42, 32-43.	1.3	49
43	dATP Causes Specific Release of Cytochrome C from Mitochondria. Biochemical and Biophysical Research Communications, 1998, 250, 454-457.	1.0	47
44	Isolation of transcriptomal changes attributable to LHON mutations and the cybridization process. Brain, 2005, 128, 1026-1037.	3.7	44
45	Mitochondrial complex I deficiency leads to inflammation and retinal ganglion cell death in the Ndufs4 mouse. Human Molecular Genetics, 2015, 24, 2848-2860.	1.4	44
46	Frataxin deficiency impairs mitochondrial biogenesis in cells, mice and humans. Human Molecular Genetics, 2017, 26, 2627-2633.	1.4	44
47	PPAR α -targeted mitochondrial bioenergetics mediate repair of intestinal barriers at the host-microbe intersection during SIV infection. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24819-24829.	3.3	42
48	HSC20 interacts with frataxin and is involved in iron-sulfur cluster biogenesis and iron homeostasis. Human Molecular Genetics, 2012, 21, 1457-1469.	1.4	40
49	Reproducible Quantitative PCR of Mitochondrial and Nuclear DNA Copy Number Using the LightCycler, 2002, 197, 129-137.		39
50	<i>In Vitro</i> Evaluation of Mitochondrial Function and Estrogen Signaling in Cell Lines Exposed to the Antiseptic Cetylpyridinium Chloride. Environmental Health Perspectives, 2017, 125, 087015.	2.8	39
51	The Influence of Shc Proteins on Life Span in Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 1177-1185.	1.7	37
52	Synthesis and characterization of mitoQ and idebenone analogues as mediators of oxygen consumption in mitochondria. Bioorganic and Medicinal Chemistry, 2010, 18, 6429-6441.	1.4	36
53	Mutant Twinkle increases dopaminergic neurodegeneration, mtDNA deletions and modulates Parkin expression. Human Molecular Genetics, 2012, 21, 5147-5158.	1.4	36
54	Hemin rescues adrenodoxin, heme a and cytochrome oxidase activity in frataxin-deficient oligodendrogloma cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 773-780.	1.8	35

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55	Disruption of mitochondrial function as mechanism for anti-cancer activity of a novel mitochondriotropic menadione derivative. <i>Toxicology</i> , 2018, 393, 123-139.	2.0	35
56	High-throughput measurement of mitochondrial membrane potential in a neural cell line using a fluorescence plate reader. <i>Biochemical and Biophysical Research Communications</i> , 2002, 298, 750-754.	1.0	32
57	Frataxin Deficiency Promotes Excess Microglial DNA Damage and Inflammation that Is Rescued by PJ34. <i>PLoS ONE</i> , 2016, 11, e0151026.	1.1	31
58	Dimethyl fumarate dosing in humans increases frataxin expression: A potential therapy for Friedreich's Ataxia. <i>PLoS ONE</i> , 2019, 14, e0217776.	1.1	29
59	Mitochondrial Hspa9/Mortalin regulates erythroid differentiation via iron-sulfur cluster assembly. <i>Mitochondrion</i> , 2016, 26, 94-103.	1.6	28
60	Identification and functional validation of FDA-approved positive and negative modulators of the mitochondrial calcium uniporter. <i>Cell Reports</i> , 2021, 35, 109275.	2.9	28
61	High-throughput screening of FDA-approved drugs using oxygen biosensor plates reveals secondary mitofunctional effects. <i>Mitochondrion</i> , 2014, 17, 116-125.	1.6	27
62	Frataxin deficiency increases cyclooxygenase 2 and prostaglandins in cell and animal models of Friedreich's ataxia. <i>Human Molecular Genetics</i> , 2014, 23, 6838-6847.	1.4	26
63	Parkin deficiency accelerates consequences of mitochondrial DNA deletions and Parkinsonism. <i>Neurobiology of Disease</i> , 2017, 100, 30-38.	2.1	26
64	Using the polymerase chain reaction to estimate mutation frequencies and rates in human cells. <i>Mutation Research - Reviews in Genetic Toxicology</i> , 1992, 277, 239-249.	3.0	25
65	Development of an HTS assay for EPHX2 phosphatase activity and screening of nontargeted libraries. <i>Analytical Biochemistry</i> , 2013, 434, 105-111.	1.1	24
66	Genotypic selection of mitochondrial and oncogenic mutations in human tissue suggests mechanisms of age-related pathophysiology. <i>Mutation Research - DNAGing</i> , 1995, 338, 151-159.	3.3	23
67	Mitochondrial DNA Deletions and Chloramphenicol Treatment Stimulate the Autophagic Transcript ATG12. <i>Autophagy</i> , 2007, 3, 377-380.	4.3	22
68	Idebenone is a cytoprotective insulin sensitizer whose mechanism is Shc inhibition. <i>Pharmacological Research</i> , 2018, 137, 89-103.	3.1	21
69	Mitochondrial DNA deletions induce the adenosine monophosphate-activated protein kinase energy stress pathway and result in decreased secretion of some proteins. <i>Aging Cell</i> , 2007, 6, 619-630.	3.0	20
70	Neurobehavioral deficits in the KIKO mouse model of Friedreich's ataxia. <i>Behavioural Brain Research</i> , 2017, 316, 183-188.	1.2	19
71	Repurposing FDA approved drugs inhibiting mitochondrial function for targeting glioma-stem like cells. <i>Biomedicine and Pharmacotherapy</i> , 2021, 133, 111058.	2.5	19
72	Biosensor plates detect mitochondrial physiological regulators and mutations in vivo. <i>Analytical Biochemistry</i> , 2009, 385, 176-178.	1.1	18

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73	Effects of alkyl side chain modification of coenzyme Q 10 on mitochondrial respiratory chain function and cytoprotection. <i>Bioorganic and Medicinal Chemistry</i> , 2013, 21, 2346-2354.	1.4	18
74	p46Shc Inhibits Thiolase and Lipid Oxidation in Mitochondria. <i>Journal of Biological Chemistry</i> , 2016, 291, 12575-12585.	1.6	18
75	Bipolar cell reduction precedes retinal ganglion neuron loss in a complex 1 knockout mouse model. <i>Brain Research</i> , 2017, 1657, 232-244.	1.1	18
76	An innate immune response and altered nuclear receptor activation defines the spinal cord transcriptome during alpha-tocopherol deficiency in Ttpa-null mice. <i>Free Radical Biology and Medicine</i> , 2018, 120, 289-302.	1.3	18
77	Mitochondrial complex I defects increase ubiquitin in substantia nigra. <i>Brain Research</i> , 2015, 1594, 82-91.	1.1	17
78	Rescue of cell death and inflammation of a mouse model of complex 1-mediated vision loss by repurposed drug molecules. <i>Human Molecular Genetics</i> , 2017, 26, 4929-4936.	1.4	17
79	Sperm Mitochondrial Function is Affected by Stallion Age and Predicts Post-Thaw Motility. <i>Journal of Equine Veterinary Science</i> , 2017, 50, 52-61.	0.4	17
80	Multiple Origins of a Mitochondrial Mutation Conferring Deafness. <i>Genetics</i> , 1997, 145, 771-776.	1.2	17
81	Correlated mutagenesis of bcl2 and hprt loci in blood lymphocytes. , 1997, 29, 36-45.		16
82	Shc depletion stimulates brown fat activity <i>in vivo</i> and <i>in vitro</i> . <i>Aging Cell</i> , 2014, 13, 1049-1058.	3.0	16
83	Key Glycolytic Enzyme Activities of Skeletal Muscle Are Decreased under Fed and Fasted States in Mice with Knocked Down Levels of Shc Proteins. <i>PLoS ONE</i> , 2015, 10, e0124204.	1.1	16
84	Degeneration of human oncogenes and mitochondrial genes occurs in cells that exhibit age-related pathology. <i>Experimental Gerontology</i> , 1996, 31, 253-265.	1.2	15
85	Lymphoblast Oxidative Stress Genes as Potential Biomarkers of Disease Severity and Drug Effect in Friedreich's Ataxia. <i>PLoS ONE</i> , 2016, 11, e0153574.	1.1	15
86	Nonphagocytic Activation of NOX2 Is Implicated in Progressive Nonalcoholic Steatohepatitis During Aging. <i>Hepatology</i> , 2020, 72, 1204-1218.	3.6	13
87	A ketogenic diet impacts markers of mitochondrial mass in a tissue specific manner in aged mice. <i>Aging</i> , 2021, 13, 7914-7930.	1.4	12
88	Shc proteins influence the activities of enzymes involved in fatty acid oxidation and ketogenesis. <i>Metabolism: Clinical and Experimental</i> , 2012, 61, 1703-1713.	1.5	11
89	Identification of small molecules that improve ATP synthesis defects conferred by Leber's hereditary optic neuropathy mutations. <i>Mitochondrion</i> , 2016, 30, 177-186.	1.6	11
90	Dimethyl fumarate dose-dependently increases mitochondrial gene expression and function in muscle and brain of Friedreich's ataxia model mice. <i>Human Molecular Genetics</i> , 2021, 29, 3954-3965.	1.4	11

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91	Small molecules bind human mTOR protein and inhibit mTORC1 specifically. <i>Biochemical Pharmacology</i> , 2018, 155, 298-304.	2.0	10
92	A high-throughput screen for mitochondrial function reveals known and novel mitochondrial toxicants in a library of environmental agents. <i>Mitochondrion</i> , 2016, 31, 79-83.	1.6	9
93	Cetylpyridinium chloride is a potent AMP-activated kinase (AMPK) inducer and has therapeutic potential in cancer. <i>Mitochondrion</i> , 2020, 50, 19-24.	1.6	7
94	Potential biomarker identification for Friedreich's ataxia using overlapping gene expression patterns in patient cells and mouse dorsal root ganglion. <i>PLoS ONE</i> , 2019, 14, e0223209.	1.1	6
95	Novel mTORC1 Inhibitors Kill Glioblastoma Stem Cells. <i>Pharmaceuticals</i> , 2020, 13, 419.	1.7	6
96	A descriptive pilot study of cytokine production following stimulation of ex-vivo whole blood with commercial therapeutic feline hydrolyzed diets in individual healthy immunotolerant cats. <i>BMC Veterinary Research</i> , 2017, 13, 297.	0.7	5
97	Mice with low levels of Shc proteins display reduced glycolytic and increased gluconeogenic activities in liver. <i>Biochemistry and Biophysics Reports</i> , 2016, 7, 273-286.	0.7	4
98	Novel idebenone analogs block Shc's access to insulin receptor to improve insulin sensitivity. <i>Biomedicine and Pharmacotherapy</i> , 2020, 132, 110823.	2.5	3
99	The Histone H3 K4me3, K27me3, and K27ac Genome-Wide Distributions Are Differently Influenced by Sex in Brain Cortexes and Gastrocnemius of the Alzheimer's Disease PSAPP Mouse Model. <i>Epigenomes</i> , 2021, 5, 26.	0.8	3
100	A Drug Combination Rescues Frataxin-Dependent Neural and Cardiac Pathophysiology in FA Models. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, .	1.6	3
101	Shc inhibitor idebenone ameliorates liver injury and fibrosis in dietary NASH in mice. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22876.	1.4	2
102	Identification of the neuroprotective Shc target in Alzheimer's and validation of the neuroprotective benefit of a set of small molecule Shc blockers. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	1