

Plcido Navas

List of Publications by Citations

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203
papers

13,112
citations

50
h-index

109
g-index

218
ext. papers

14,560
ext. citations

6.1
avg, IF

5.97
L-index

#	Paper	IF	Citations
203	Resveratrol improves health and survival of mice on a high-calorie diet. <i>Nature</i> , 2006 , 444, 337-42	50.4	3520
202	Resveratrol delays age-related deterioration and mimics transcriptional aspects of dietary restriction without extending life span. <i>Cell Metabolism</i> , 2008 , 8, 157-68	24.6	949
201	Supercomplex assembly determines electron flux in the mitochondrial electron transport chain. <i>Science</i> , 2013 , 340, 1567-70	33.3	528
200	COQ6 mutations in human patients produce nephrotic syndrome with sensorineural deafness. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2013-24	15.9	292
199	A mutation in para-hydroxybenzoate-polyprenyl transferase (COQ2) causes primary coenzyme Q10 deficiency. <i>American Journal of Human Genetics</i> , 2006 , 78, 345-9	11	287
198	Mitochondrial biogenesis and healthy aging. <i>Experimental Gerontology</i> , 2008 , 43, 813-9	4.5	268
197	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. <i>Cell Metabolism</i> , 2016 , 23, 1093-1112	24.6	245
196	Mitochondrial ROS Produced via Reverse Electron Transport Extend Animal Lifespan. <i>Cell Metabolism</i> , 2016 , 23, 725-34	24.6	220
195	Resveratrol improves adipose insulin signaling and reduces the inflammatory response in adipose tissue of rhesus monkeys on high-fat, high-sugar diet. <i>Cell Metabolism</i> , 2013 , 18, 533-45	24.6	183
194	Nrf2 mediates cancer protection but not longevity induced by caloric restriction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2325-30	11.5	181
193	Coenzyme Q Supplementation in Aging and Disease. <i>Frontiers in Physiology</i> , 2018 , 9, 44	4.6	176
192	Coenzyme Q deficiency triggers mitochondria degradation by mitophagy. <i>Autophagy</i> , 2009 , 5, 19-32	10.2	162
191	Calorie restriction as an intervention in ageing. <i>Journal of Physiology</i> , 2016 , 594, 2043-60	3.9	160
190	The CoQH2/CoQ Ratio Serves as a Sensor of Respiratory Chain Efficiency. <i>Cell Reports</i> , 2016 , 15, 197-209	10.6	153
189	Reconsidering the Role of Mitochondria in Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 1334-42	6.4	142
188	Selective induction of apoptosis by capsaicin in transformed cells: the role of reactive oxygen species and calcium. <i>Cell Death and Differentiation</i> , 1999 , 6, 155-65	12.7	142
187	Missense mutation of the COQ2 gene causes defects of bioenergetics and de novo pyrimidine synthesis. <i>Human Molecular Genetics</i> , 2007 , 16, 1091-7	5.6	122

186	Respiratory chain dysfunction and oxidative stress correlate with severity of primary CoQ10 deficiency. <i>FASEB Journal</i> , 2008 , 22, 1874-85	0.9	114
185	The importance of plasma membrane coenzyme Q in aging and stress responses. <i>Mitochondrion</i> , 2007 , 7 Suppl, S34-40	4.9	113
184	Secondary coenzyme Q10 deficiency triggers mitochondria degradation by mitophagy in MELAS fibroblasts. <i>FASEB Journal</i> , 2011 , 25, 2669-87	0.9	106
183	Is coenzyme Q a key factor in aging?. <i>Mechanisms of Ageing and Development</i> , 2010 , 131, 225-35	5.6	96
182	Plasma membrane redox system in the control of stress-induced apoptosis. <i>Antioxidants and Redox Signaling</i> , 2000 , 2, 213-30	8.4	94
181	The diversity of coenzyme Q function. <i>Molecular Aspects of Medicine</i> , 1997 , 18 Suppl, S1-6	16.7	92
180	Mitochondrial dysfunction and mitophagy activation in blood mononuclear cells of fibromyalgia patients: implications in the pathogenesis of the disease. <i>Arthritis Research and Therapy</i> , 2010 , 12, R17	5.7	89
179	Molecular bases of caloric restriction regulation of neuronal synaptic plasticity. <i>Molecular Neurobiology</i> , 2008 , 38, 167-77	6.2	86
178	Haploinsufficiency of COQ4 causes coenzyme Q10 deficiency. <i>Journal of Medical Genetics</i> , 2012 , 49, 187-93	9.8	84
177	Cerebellar ataxia with coenzyme Q10 deficiency: diagnosis and follow-up after coenzyme Q10 supplementation. <i>Journal of the Neurological Sciences</i> , 2006 , 246, 153-8	3.2	84
176	Uptake of exogenous coenzyme Q and transport to mitochondria is required for bc1 complex stability in yeast coq mutants. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10973-81	5.4	83
175	Bioavailability of coenzyme Q10 supplements depends on carrier lipids and solubilization. <i>Nutrition</i> , 2019 , 57, 133-140	4.8	70
174	Ascorbate function at the plasma membrane. <i>BBA - Biomembranes</i> , 1994 , 1197, 1-13		69
173	Coenzyme Q biosynthesis and its role in the respiratory chain structure. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016 , 1857, 1073-1078	4.6	67
172	Ascorbate is regenerated by HL-60 cells through the transplasmalemma redox system. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991 , 1073, 380-5	4	67
171	Na controls hypoxic signalling by the mitochondrial respiratory chain. <i>Nature</i> , 2020 , 586, 287-291	50.4	67
170	COQ4 mutations cause a broad spectrum of mitochondrial disorders associated with CoQ10 deficiency. <i>American Journal of Human Genetics</i> , 2015 , 96, 309-17	11	66
169	Antioxidant ascorbate is stabilized by NADH-coenzyme Q10 reductase in the plasma membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 1997 , 29, 251-7	3.7	66

168	Coenzyme Q deficiency in muscle. <i>Current Opinion in Neurology</i> , 2011 , 24, 449-56	7.1	62
167	Silencing of ubiquinone biosynthesis genes extends life span in <i>Caenorhabditis elegans</i> . <i>FASEB Journal</i> , 2003 , 17, 1135-7	0.9	62
166	Lifespan decrease in a <i>Caenorhabditis elegans</i> mutant lacking TRX-1, a thioredoxin expressed in ASJ sensory neurons. <i>FEBS Letters</i> , 2006 , 580, 484-90	3.8	60
165	Plasma membrane ubiquinone controls ceramide production and prevents cell death induced by serum withdrawal. <i>Journal of Bioenergetics and Biomembranes</i> , 1997 , 29, 259-67	3.7	59
164	Analysis of coenzyme Q10 in muscle and fibroblasts for the diagnosis of CoQ10 deficiency syndromes. <i>Clinical Biochemistry</i> , 2008 , 41, 697-700	3.5	59
163	Effect of vanillic acid on COQ6 mutants identified in patients with coenzyme Q10 deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014 , 1842, 1-6	6.9	57
162	Demethoxy-Q, an intermediate of coenzyme Q biosynthesis, fails to support respiration in <i>Saccharomyces cerevisiae</i> and lacks antioxidant activity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25995-8004 ⁵⁶	5.4	56
161	N-acetylcysteine, coenzyme Q10 and superoxide dismutase mimetic prevent mitochondrial cell dysfunction and cell death induced by d-galactosamine in primary culture of human hepatocytes. <i>Chemico-Biological Interactions</i> , 2009 , 181, 95-106	5	54
160	Enhanced anti-oxidant protection of liver membranes in long-lived rats fed on a coenzyme Q10-supplemented diet. <i>Experimental Gerontology</i> , 2005 , 40, 694-706	4.5	53
159	Mitochondrial responsibility in ageing process: innocent, suspect or guilty. <i>Biogerontology</i> , 2015 , 16, 599-620	4.5	52
158	Genetic evidence for coenzyme Q requirement in plasma membrane electron transport. <i>Journal of Bioenergetics and Biomembranes</i> , 1998 , 30, 465-75	3.7	52
157	Secondary coenzyme Q10 deficiencies in oxidative phosphorylation (OXPHOS) and non-OXPHOS disorders. <i>Mitochondrion</i> , 2016 , 30, 51-8	4.9	52
156	Coenzyme Q10 distribution in blood is altered in patients with fibromyalgia. <i>Clinical Biochemistry</i> , 2009 , 42, 732-5	3.5	50
155	Chemotherapy induces an increase in coenzyme Q10 levels in cancer cell lines. <i>Free Radical Biology and Medicine</i> , 2006 , 40, 1293-302	7.8	50
154	Coenzyme Q distribution in HL-60 human cells depends on the endomembrane system. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1713, 129-37	3.8	50
153	Plasma membrane NADH-coenzyme Q0 reductase generates semiquinone radicals and recycles vitamin E homologue in a superoxide-dependent reaction. <i>FEBS Letters</i> , 1998 , 428, 43-6	3.8	49
152	Coenzyme Q(10)-responsive ataxia: 2-year-treatment follow-up. <i>Movement Disorders</i> , 2010 , 25, 1262-8	7	48
151	Clinical, biochemical and molecular aspects of cerebellar ataxia and Coenzyme Q10 deficiency. <i>Cerebellum</i> , 2007 , 6, 118-22	4.3	47

150	Complex I-associated hydrogen peroxide production is decreased and electron transport chain enzyme activities are altered in n-3 enriched fat-1 mice. <i>PLoS ONE</i> , 2010 , 5, e12696	3.7	47
149	Anti-inflammatory effect of resveratrol in old mice liver. <i>Experimental Gerontology</i> , 2015 , 64, 1-7	4.5	46
148	The apoptotic microtubule network preserves plasma membrane integrity during the execution phase of apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2007 , 12, 1195-208	5.4	43
147	Functional characterization of human COQ4, a gene required for Coenzyme Q10 biosynthesis. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 35-9	3.4	42
146	PARL deficiency in mouse causes Complex III defects, coenzyme Q depletion, and Leigh-like syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 277-286	11.5	42
145	Role of ascorbate in the activation of NF-kappaB by tumour necrosis factor-alpha in T-cells. <i>Biochemical Journal</i> , 1997 , 325 (Pt 1), 23-8	3.8	41
144	Coenzyme Q6 and iron reduction are responsible for the extracellular ascorbate stabilization at the plasma membrane of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1998 , 273, 8099-105	5.4	41
143	Growth factor-stimulated trans plasma membrane electron transport in HL-60 cells. <i>FEBS Letters</i> , 1992 , 299, 223-6	3.8	41
142	Protective role of ubiquinone in vitamin E and selenium-deficient plasma membranes. <i>BioFactors</i> , 1999 , 9, 163-70	6.1	40
141	The role of ascorbate in biomembrane energetics. <i>Annals of the New York Academy of Sciences</i> , 1987 , 498, 153-71	6.5	40
140	The COQ2 genotype predicts the severity of coenzyme Q10 deficiency. <i>Human Molecular Genetics</i> , 2016 , 25, 4256-4265	5.6	40
139	Coenzyme Q protects cells against serum withdrawal-induced apoptosis by inhibition of ceramide release and caspase-3 activation. <i>Antioxidants and Redox Signaling</i> , 2000 , 2, 263-75	8.4	39
138	Cell survival from chemotherapy depends on NF-kappaB transcriptional up-regulation of coenzyme Q biosynthesis. <i>PLoS ONE</i> , 2009 , 4, e5301	3.7	39
137	Organ and tissue-dependent effect of resveratrol and exercise on antioxidant defenses of old mice. <i>Aging Clinical and Experimental Research</i> , 2015 , 27, 775-83	4.8	38
136	Modulation of endogenous antioxidant activity by resveratrol and exercise in mouse liver is age dependent. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2014 , 69, 398-409	6.4	38
135	Coenzyme Q deficiency in mitochondrial DNA depletion syndromes. <i>Mitochondrion</i> , 2013 , 13, 337-41	4.9	38
134	The characterization of the <i>Caenorhabditis elegans</i> mitochondrial thioredoxin system uncovers an unexpected protective role of thioredoxin reductase 2 in amyloid peptide toxicity. <i>Antioxidants and Redox Signaling</i> , 2012 , 16, 1384-400	8.4	38
133	The phosphatase Ptc7 induces coenzyme Q biosynthesis by activating the hydroxylase Coq7 in yeast. <i>Journal of Biological Chemistry</i> , 2013 , 288, 28126-37	5.4	38

132	Cytochrome reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016 , 2, 16006	5.5	38
131	Molecular characterization of the human COQ5 C-methyltransferase in coenzyme Q10 biosynthesis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 1628-38	5	37
130	Mutations in COQ8B (ADCK4) found in patients with steroid-resistant nephrotic syndrome alter COQ8B function. <i>Human Mutation</i> , 2018 , 39, 406-414	4.7	37
129	Primary coenzyme Q10 deficiency presenting as fatal neonatal multiorgan failure. <i>European Journal of Human Genetics</i> , 2015 , 23, 1254-8	5.3	36
128	Specificity of coenzyme Q10 for a balanced function of respiratory chain and endogenous ubiquinone biosynthesis in human cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005 , 1706, 174-83 ^{4.6}	4.6	36
127	Interactions between ascorbyl free radical and coenzyme Q at the plasma membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 2000 , 32, 199-210	3.7	36
126	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. <i>Aging Cell</i> , 2009 , 8, 140-51	9.9	33
125	Alterations of ultrastructural and fission/fusion markers in hepatocyte mitochondria from mice following calorie restriction with different dietary fats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013 , 68, 1023-34	6.4	32
124	Screening of effective pharmacological treatments for MELAS syndrome using yeasts, fibroblasts and cybrid models of the disease. <i>British Journal of Pharmacology</i> , 2012 , 167, 1311-28	8.6	32
123	Respiratory-induced coenzyme Q biosynthesis is regulated by a phosphorylation cycle of Cat5p/Coq7p. <i>Biochemical Journal</i> , 2011 , 440, 107-14	3.8	32
122	Age-related mitochondrial dysfunction as a key factor in COVID-19 disease. <i>Experimental Gerontology</i> , 2020 , 142, 111147	4.5	32
121	Age-dependent effect of every-other-day feeding and aerobic exercise in ubiquinone levels and related antioxidant activities in mice muscle. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 33-43	6.4	31
120	The Influence of Dietary Fat Source on Life Span in Calorie Restricted Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 1181-8	6.4	30
119	Mitochondrial dysfunction in metabolism and ageing: shared mechanisms and outcomes?. <i>Biogerontology</i> , 2018 , 19, 461-480	4.5	30
118	Relationship between functional capacity and body mass index with plasma coenzyme Q10 and oxidative damage in community-dwelling elderly-people. <i>Experimental Gerontology</i> , 2014 , 52, 46-54	4.5	30
117	The influence of dietary lipid composition on skeletal muscle mitochondria from mice following 1 month of calorie restriction. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012 , 67, 1121-31	6.4	30
116	Modifications of plasma proteome in long-lived rats fed on a coenzyme Q10-supplemented diet. <i>Experimental Gerontology</i> , 2007 , 42, 798-806	4.5	30
115	Inorganic pyrophosphatase defects lead to cell cycle arrest and autophagic cell death through NAD ⁺ depletion in fermenting yeast. <i>Journal of Biological Chemistry</i> , 2013 , 288, 13082-92	5.4	29

114	Calorie restriction modifies ubiquinone and COQ transcript levels in mouse tissues. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 1728-36	7.8	29
113	Hydrogen peroxide- and cell-density-regulated expression of NADH-cytochrome b5 reductase in HeLa cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2003 , 35, 169-79	3.7	29
112	NADH and NADPH-dependent reduction of coenzyme Q at the plasma membrane. <i>Antioxidants and Redox Signaling</i> , 2000 , 2, 251-62	8.4	29
111	Clinical symptoms in fibromyalgia are better associated to lipid peroxidation levels in blood mononuclear cells rather than in plasma. <i>PLoS ONE</i> , 2011 , 6, e26915	3.7	29
110	Physical Exercise During Pregnancy Prevents Cognitive Impairment Induced by Amyloid- β in Adult Offspring Rats. <i>Molecular Neurobiology</i> , 2019 , 56, 2022-2038	6.2	28
109	Physical activity affects plasma coenzyme Q10 levels differently in young and old humans. <i>Biogerontology</i> , 2014 , 15, 199-211	4.5	28
108	Biochemical Assessment of Coenzyme Q Deficiency. <i>Journal of Clinical Medicine</i> , 2017 , 6,	5.1	28
107	Coenzyme Q10 and alpha-tocopherol protect against amitriptyline toxicity. <i>Toxicology and Applied Pharmacology</i> , 2009 , 235, 329-37	4.6	28
106	Neutral magnesium-dependent sphingomyelinase from liver plasma membrane: purification and inhibition by ubiquinol. <i>Journal of Bioenergetics and Biomembranes</i> , 2001 , 33, 143-53	3.7	28
105	Acute oxidant damage promoted on cancer cells by amitriptyline in comparison with some common chemotherapeutic drugs. <i>Anti-Cancer Drugs</i> , 2010 , 21, 932-44	2.4	27
104	Relationship between apoplastic ascorbate regeneration and the stimulation of root growth in <i>Allium cepa</i> L.. <i>Plant Science</i> , 1994 , 100, 23-29	5.3	26
103	Membrane-bound CYB5R3 is a common effector of nutritional and oxidative stress response through FOXO3a and Nrf2. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 1708-25	8.4	25
102	Mitochondrial ultrastructure and markers of dynamics in hepatocytes from aged, calorie restricted mice fed with different dietary fats. <i>Experimental Gerontology</i> , 2014 , 56, 77-88	4.5	25
101	Functional complementation in yeast allows molecular characterization of missense argininosuccinate lyase mutations. <i>Journal of Biological Chemistry</i> , 2009 , 284, 28926-34	5.4	25
100	The influence of dietary lipid composition on liver mitochondria from mice following 1 month of calorie restriction. <i>Bioscience Reports</i> , 2012 , 33, 83-95	4.1	24
99	A statistical algorithm showing coenzyme Q and citrate synthase as biomarkers for mitochondrial respiratory chain enzyme activities. <i>Scientific Reports</i> , 2016 , 6, 15	4.9	24
98	Resveratrol primes the effects of physical activity in old mice. <i>British Journal of Nutrition</i> , 2016 , 116, 979-88	3.8	24
97	Overexpression of CYB5R3 and NQO1, two NAD ⁺ -producing enzymes, mimics aspects of caloric restriction. <i>Aging Cell</i> , 2018 , 17, e12767	9.9	24

96	RNA-binding proteins regulate cell respiration and coenzyme Q biosynthesis by post-transcriptional regulation of COQ7. <i>RNA Biology</i> , 2016 , 13, 622-34	4.8	23
95	Vanillic Acid Restores Coenzyme Q Biosynthesis and ATP Production in Human Cells Lacking. <i>Oxidative Medicine and Cellular Longevity</i> , 2019 , 2019, 3904905	6.7	23
94	Redox regulation of cAMP levels by ascorbate in 1,25-dihydroxy- vitamin D3-induced differentiation of HL-60 cells. <i>Biochemical Journal</i> , 1998 , 331 (Pt 1), 21-7	3.8	22
93	Genetic Rescue of Mitochondrial and Skeletal Muscle Impairment in an Induced Pluripotent Stem Cells Model of Coenzyme Q Deficiency. <i>Stem Cells</i> , 2017 , 35, 1687-1703	5.8	21
92	Apoptotic microtubule network organization and maintenance depend on high cellular ATP levels and energized mitochondria. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2011 , 16, 404-24	5.4	21
91	Coenzyme Q10 deficiency associated with a mitochondrial DNA depletion syndrome: a case report. <i>Clinical Biochemistry</i> , 2009 , 42, 742-5	3.5	21
90	C. elegans knockouts in ubiquinone biosynthesis genes result in different phenotypes during larval development. <i>BioFactors</i> , 2005 , 25, 21-9	6.1	21
89	The effect of ascorbate free radical on the energy state of the plasma membrane of onion (<i>Allium cepa</i> L.) root cells: alteration of K ⁺ efflux by ascorbate?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992 , 1098, 177-183	4.6	21
88	Coenzyme Q10 deficiencies in neuromuscular diseases. <i>Advances in Experimental Medicine and Biology</i> , 2009 , 652, 117-28	3.6	20
87	Ubiquinol inhibition of neutral sphingomyelinase in liver plasma membrane: specific inhibition of the Mg(2+)-dependent enzyme and role of isoprenoid chain. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 581-6	3.4	20
86	Muscle physiology changes induced by every other day feeding and endurance exercise in mice: effects on physical performance. <i>PLoS ONE</i> , 2010 , 5, e13900	3.7	20
85	Dietary fat modifies mitochondrial and plasma membrane apoptotic signaling in skeletal muscle of calorie-restricted mice. <i>Age</i> , 2013 , 35, 2027-44		19
84	Genetic evidence for the requirement of the endocytic pathway in the uptake of coenzyme Q6 in <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 1238-48	3.8	19
83	The role of ubiquinone in <i>Caenorhabditis elegans</i> longevity. <i>Ageing Research Reviews</i> , 2005 , 4, 41-53	12	19
82	The onset of cell proliferation is stimulated by ascorbate free radical in onion root primordia. <i>Biology of the Cell</i> , 1993 , 77, 231-233	3.5	19
81	Molecular diagnosis of coenzyme Q deficiency: an update. <i>Expert Review of Molecular Diagnostics</i> , 2018 , 18, 491-498	3.8	19
80	Haploinsufficiency Reduces Mitochondrial Lipid Oxidation and Causes Myopathy Associated with CoQ Deficiency. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	18
79	Coenzyme Q supports distinct developmental processes in <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2009 , 130, 145-53	5.6	18

78	Pyrophosphate-induced acidification of trans cisternal elements of rat liver Golgi apparatus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1104, 188-94	3.8	18
77	Dietary fat composition influences glomerular and proximal convoluted tubule cell structure and autophagic processes in kidneys from calorie-restricted mice. <i>Aging Cell</i> , 2016 , 15, 477-87	9.9	18
76	The mitochondrial phosphatase PPTC7 orchestrates mitochondrial metabolism regulating coenzyme Q biosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018 , 1859, 1235-1248	4.6	18
75	The Impact of Aging, Calorie Restriction and Dietary Fat on Autophagy Markers and Mitochondrial Ultrastructure and Dynamics in Mouse Skeletal Muscle. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019 , 74, 760-769	6.4	17
74	Determination of urinary coenzyme Q10 by HPLC with electrochemical detection: Reference values for a paediatric population. <i>BioFactors</i> , 2015 , 41, 424-30	6.1	17
73	Characterization of CoQ10 biosynthesis in fibroblasts of patients with primary and secondary CoQ10 deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2014 , 37, 53-62	5.4	17
72	Coenzyme Q is irreplaceable by demethoxy-coenzyme Q in plasma membrane of <i>Caenorhabditis elegans</i> . <i>FEBS Letters</i> , 2006 , 580, 1740-6	3.8	17
71	Regulation of ceramide signaling by plasma membrane coenzyme Q reductases. <i>Methods in Enzymology</i> , 2004 , 378, 200-6	1.7	17
70	Coenzyme Q and the regulation of intracellular steady-state levels of superoxide in HL-60 cells. <i>BioFactors</i> , 2005 , 25, 31-41	6.1	17
69	CYB5R3: a key player in aerobic metabolism and aging?. <i>Aging</i> , 2009 , 2, 63-8	5.6	17
68	Clinical presentation and proteomic signature of patients with TANGO2 mutations. <i>Journal of Inherited Metabolic Disease</i> , 2020 , 43, 297-308	5.4	17
67	Reactive oxygen species mediate the down-regulation of mitochondrial transcripts and proteins by tumour necrosis factor-alpha in L929 cells. <i>Biochemical Journal</i> , 2003 , 370, 609-19	3.8	16
66	A novel plasma membrane quinone reductase and NAD(P)H:quinone oxidoreductase 1 are upregulated by serum withdrawal in human promyelocytic HL-60 cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2002 , 34, 209-19	3.7	16
65	Lectin binding patterns in amphibian epidermis. <i>Acta Histochemica</i> , 1987 , 81, 51-7	2	16
64	Severe encephalopathy associated to pyruvate dehydrogenase mutations and unbalanced coenzyme Q10 content. <i>European Journal of Human Genetics</i> , 2016 , 24, 367-72	5.3	15
63	Survival transcriptome in the coenzyme Q10 deficiency syndrome is acquired by epigenetic modifications: a modelling study for human coenzyme Q10 deficiencies. <i>BMJ Open</i> , 2013 , 3,	3	15
62	Amitriptyline induces coenzyme Q deficiency and oxidative damage in mouse lung and liver. <i>Toxicology Letters</i> , 2011 , 204, 32-7	4.4	15
61	Mitochondrial dysfunction in skin biopsies and blood mononuclear cells from two cases of fibromyalgia patients. <i>Clinical Biochemistry</i> , 2010 , 43, 1174-6	3.5	15

60	Dicoumarol down-regulates human PTTG1/Securin mRNA expression through inhibition of Hsp90. <i>Molecular Cancer Therapeutics</i> , 2008 , 7, 474-82	6.1	15
59	Molecular diagnosis of coenzyme Q10 deficiency. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 1049-59	3.9	14
58	Differential regulation of hepatic apoptotic pathways by dietary olive and sunflower oils in the aging rat. <i>Experimental Gerontology</i> , 2006 , 41, 1174-84	4.5	14
57	Adaptations to oxidative stress induced by vitamin E deficiency in rat liver. <i>Journal of Bioenergetics and Biomembranes</i> , 2006 , 38, 309-17	3.7	14
56	Extracellular ascorbate stabilization as a result of transplasma electron transfer in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioenergetics and Biomembranes</i> , 1995 , 27, 597-603	3.7	14
55	Ascorbate and the plasma membrane. A new view of cell growth control. <i>Sub-Cellular Biochemistry</i> , 1996 , 25, 57-8	5.5	14
54	The influence of dietary fat source on liver and skeletal muscle mitochondrial modifications and lifespan changes in calorie-restricted mice. <i>Biogerontology</i> , 2015 , 16, 655-70	4.5	13
53	Dietary fat and aging modulate apoptotic signaling in liver of calorie-restricted mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015 , 70, 399-409	6.4	13
52	Association between coenzyme Q10 and glucose transporter (GLUT1) deficiency. <i>BMC Pediatrics</i> , 2014 , 14, 284	2.6	13
51	Caloric restriction reduces IgA levels and modifies cytokine mRNA expression in mouse small intestine. <i>Journal of Nutritional Biochemistry</i> , 2011 , 22, 560-6	6.3	13
50	Plasma coenzyme Q status is impaired in selected genetic conditions. <i>Scientific Reports</i> , 2019 , 9, 793	4.9	12
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