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List of Publications by Year
in descending order

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104 papers	8,197 citations	117625 34 h-index	46799 89 g-index
107 all docs	107 docs citations	107 times ranked	10707 citing authors

#	Article	IF	Citations
1	Resveratrol improves health and survival of mice on a high-calorie diet. Nature, 2006, 444, 337-342.	27.8	3,882
2	Calorie restriction induces mitochondrial biogenesis and bioenergetic efficiency. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1768-1773.	7.1	601
3	Mitochondrial biogenesis and healthy aging. Experimental Gerontology, 2008, 43, 813-819.	2.8	315
4	Coenzyme Q10 Supplementation in Aging and Disease. Frontiers in Physiology, 2018, 9, 44.	2.8	258
5	Calorie restriction as an intervention in ageing. Journal of Physiology, 2016, 594, 2043-2060.	2.9	212
6	Caloric Restriction Increases Learning Consolidation and Facilitates Synaptic Plasticity through Mechanisms Dependent on NR2B Subunits of the NMDA Receptor. Journal of Neuroscience, 2007, 27, 10185-10195.	3.6	164
7	Calorie restriction attenuates age-related alterations in the plasma membrane antioxidant system in rat liver. Experimental Gerontology, 2004, 39, 297-304.	2.8	135
8	Is coenzyme Q a key factor in aging?. Mechanisms of Ageing and Development, 2010, 131, 225-235.	4.6	114
9	Bioavailability of coenzyme Q10 supplements depends on carrier lipids and solubilization. Nutrition, 2019, 57, 133-140.	2.4	105
10	Molecular Bases of Caloric Restriction Regulation of Neuronal Synaptic Plasticity. Molecular Neurobiology, 2008, 38, 167-177.	4.0	92
11	Ascorbate and Î±-Tocopherol Prevent Apoptosis Induced by Serum Removal Independent of Bcl-2. Archives of Biochemistry and Biophysics, 1997, 343, 243-248.	3.0	79
12	Mitochondrial activity and dynamics changes regarding metabolism in ageing and obesity. Mechanisms of Ageing and Development, 2017, 162, 108-121.	4.6	77
13	Age-related mitochondrial dysfunction as a key factor in COVID-19 disease. Experimental Gerontology, 2020, 142, 111147.	2.8	73
14	Plasma membrane ubiquinone controls ceramide production and prevents cell death induced by serum withdrawal. Journal of Bioenergetics and Biomembranes, 1997, 29, 259-267.	2.3	67
15	Demethoxy-Q, An Intermediate of Coenzyme Q Biosynthesis, Fails to Support Respiration in Saccharomyces cerevisiae and Lacks Antioxidant Activity. Journal of Biological Chemistry, 2004, 279, 25995-26004.	3.4	65
16	PARL deficiency in mouse causes Complex III defects, coenzyme Q depletion, and Leigh-like syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 277-286.	7.1	64
17	Mitochondrial responsibility in ageing process: innocent, suspect or guilty. Biogerontology, 2015, 16, 599-620.	3.9	61
18	Role of plasma membrane coenzyme Q on the regulation of apoptosis. BioFactors, 1999, 9, 171-177.	5.4	60

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19	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. Chemico-Biological Interactions, 2009, 181, 95-106.	4.0	59
20	Anti-inflammatory effect of resveratrol in old mice liver. Experimental Gerontology, 2015, 64, 1-7.	2.8	58
21	Ceramide-dependent Caspase 3 Activation is Prevented by Coenzyme Q from Plasma Membrane in Serum-deprived Cells. Free Radical Research, 2002, 36, 369-374.	3.3	57
22	Coenzyme Q distribution in HL-60 human cells depends on the endomembrane system. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1713, 129-137.	2.6	57
23	Protein kinase C-Î´ C2-like domain is a binding site for actin and enables actin redistribution in neutrophils. Biochemical Journal, 2001, 357, 39-47.	3.7	54
24	Organ and tissue-dependent effect of resveratrol and exercise on antioxidant defenses of old mice. Aging Clinical and Experimental Research, 2015, 27, 775-783.	2.9	50
25	Complex I-Associated Hydrogen Peroxide Production Is Decreased and Electron Transport Chain Enzyme Activities Are Altered in n-3 Enriched fat-1 Mice. PLoS ONE, 2010, 5, e12696.	2.5	49
26	Modulation of Endogenous Antioxidant Activity by Resveratrol and Exercise in Mouse Liver is Age Dependent. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2014, 69, 398-409.	3.6	48
27	Coenzyme Q Protects Cells Against Serum Withdrawal-Induced Apoptosis by Inhibition of Ceramide Release and Caspase-3 Activation. Antioxidants and Redox Signaling, 2000, 2, 263-275.	5.4	47
28	Mitochondrial dysfunction in metabolism and ageing: shared mechanisms and outcomes?. Biogerontology, 2018, 19, 461-480.	3.9	44
29	Specificity of coenzyme Q10 for a balanced function of respiratory chain and endogenous ubiquinone biosynthesis in human cells. Biochimica Et Biophysica Acta - Bioenergetics, 2005, 1706, 174-183.	1.0	42
30	Alterations of Ultrastructural and Fission/Fusion Markers in Hepatocyte Mitochondria From Mice Following Calorie Restriction With Different Dietary Fats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2013, 68, 1023-1034.	3.6	41
31	Membrane-Bound CYB5R3 Is a Common Effector of Nutritional and Oxidative Stress Response Through FOXO3a and Nrf2. Antioxidants and Redox Signaling, 2014, 21, 1708-1725.	5.4	41
32	Inorganic Pyrophosphatase Defects Lead to Cell Cycle Arrest and Autophagic Cell Death through NAD+ Depletion in Fermenting Yeast. Journal of Biological Chemistry, 2013, 288, 13082-13092.	3.4	38
33	Physical activity affects plasma coenzyme Q10 levels differently in young and old humans. Biogerontology, 2014, 15, 199-211.	3.9	38
34	Mouse liver plasma membrane redox system activity is altered by aging and modulated by calorie restriction. Age, 2005, 27, 153-160.	3.0	37
35	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. Aging Cell, 2009, 8, 140-151.	6.7	37
36	Relationship between functional capacity and body mass index with plasma coenzyme Q10 and oxidative damage in community-dwelling elderly-people. Experimental Gerontology, 2014, 52, 46-54.	2.8	35

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37	Hydrogen peroxide- and cell-density-regulated expression of NADH-cytochrome b5 reductase in HeLa cells. Journal of Bioenergetics and Biomembranes, 2003, 35, 169-179.	2.3	34
38	The Influence of Dietary Fat Source on Life Span in Calorie Restricted Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 1181-1188.	3.6	34
39	The Impact of Aging, Calorie Restriction and Dietary Fat on Autophagy Markers and Mitochondrial Ultrastructure and Dynamics in Mouse Skeletal Muscle. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 760-769.	3.6	33
40	Protein kinase C-Î´ C2-like domain is a binding site for actin and enables actin redistribution in neutrophils. Biochemical Journal, 2001, 357, 39.	3.7	32
41	Age-Dependent Effect of Every-Other-Day Feeding and Aerobic Exercise in Ubiquinone Levels and Related Antioxidant Activities in Mice Muscle. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 33-43.	3.6	32
42	Calorie restriction modifies ubiquinone and COQ transcript levels in mouse tissues. Free Radical Biology and Medicine, 2011, 50, 1728-1736.	2.9	31
43	The Influence of Dietary Lipid Composition on Skeletal Muscle Mitochondria From Mice Following 1 Month of Calorie Restriction. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 1121-1131.	3.6	31
44	Mitochondrial ultrastructure and markers of dynamics in hepatocytes from aged, calorie restricted mice fed with different dietary fats. Experimental Gerontology, 2014, 56, 77-88.	2.8	30
45	Resveratrol primes the effects of physical activity in old mice. British Journal of Nutrition, 2016, 116, 979-988.	2.3	30
46	The influence of dietary lipid composition on liver mitochondria from mice following 1 month of calorie restriction. Bioscience Reports, 2013, 33, 83-95.	2.4	28
47	RNA-binding proteins regulate cell respiration and coenzyme Q biosynthesis by post-transcriptional regulation of COQ7. RNA Biology, 2016, 13, 622-634.	3.1	28
48	ADCK2 Haploinsufficiency Reduces Mitochondrial Lipid Oxidation and Causes Myopathy Associated with CoQ Deficiency. Journal of Clinical Medicine, 2019, 8, 1374.	2.4	27
49	Physiopathology of Lifestyle Interventions in Non-Alcoholic Fatty Liver Disease (NAFLD). Nutrients, 2020, 12, 3472.	4.1	27
50	SOX2 expression diminishes with ageing in several tissues in mice and humans. Mechanisms of Ageing and Development, 2019, 177, 30-36.	4.6	25
51	Redox regulation of cAMP levels by ascorbate in 1,25-dihydroxy- vitamin D3-induced differentiation of HL-60 cells. Biochemical Journal, 1998, 331, 21-27.	3.7	23
52	Coenzyme Q and the regulation of intracellular steadyâ€state levels of superoxide in HLâ€60 cells. BioFactors, 2005, 25, 31-41.	5.4	23
53	Dietary fat composition influences glomerular and proximal convoluted tubule cell structure and autophagic processes in kidneys from calorie-restricted mice. Aging Cell, 2016, 15, 477-487.	6.7	23
54	Muscle Physiology Changes Induced by Every Other Day Feeding and Endurance Exercise in Mice: Effects on Physical Performance. PLoS ONE, 2010, 5, e13900.	2.5	23

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55	Dietary fat modifies mitochondrial and plasma membrane apoptotic signaling in skeletal muscle of calorie-restricted mice. Age, 2013, 35, 2027-2044.	3.0	22
56	Plasma membrane redox system protects cells against oxidative stress. Redox Report, 2000, 5, 148-150.	4.5	21
57	Ascorbate Increases the 1,25 Dihydroxyvitamin D 3 -Induced Monocytic Differentiation of HL-60 Cells. Calcified Tissue International, 1996, 59, 277-282.	3.1	19
58	The influence of dietary fat source on liver and skeletal muscle mitochondrial modifications and lifespan changes in calorie-restricted mice. Biogerontology, 2015, 16, 655-670.	3.9	19
59	Secondary <scp>CoQ₁₀</scp> deficiency, bioenergetics unbalance in disease and aging. BioFactors, 2021, 47, 551-569.	5.4	19
60	Involvement of protein kinase D in FcÎ³-receptor activation of the NADPH oxidase in neutrophils. Biochemical Journal, 2002, 363, 95-103.	3.7	18
61	Inhibition of COX activity by NSAIDs or ascorbate increases cAMP levels and enhances differentiation in 1Î±,25-dihydroxyvitamin D3-induced HL-60 cells. Archives of Biochemistry and Biophysics, 2005, 436, 32-39.	3.0	18
62	The Influence of Dietary Lipid Composition on Skeletal Muscle Mitochondria From Mice Following Eight Months of Calorie Restriction. Physiological Research, 2014, 63, 57-71.	0.9	18
63	Dietary Oleic and Palmitic Acids Modulate the Ratio of Triacylglycerols to Cholesterol in Postprandial Triacylglycerol-Rich Lipoproteins in Men and Cell Viability and Cycling in Human Monocytes3. Journal of Nutrition, 2007, 137, 1999-2005.	2.9	17
64	Dicoumarol down-regulates human PTTG1/Securin mRNA expression through inhibition of Hsp90. Molecular Cancer Therapeutics, 2008, 7, 474-482.	4.1	16
65	Caloric restriction reduces IgA levels and modifies cytokine mRNA expression in mouse small intestine. Journal of Nutritional Biochemistry, 2011, 22, 560-566.	4.2	15
66	Dicoumarol relieves serum withdrawal-induced G0/1 blockade in HL-60 cells through a superoxide-dependent mechanism. Biochemical Pharmacology, 2005, 69, 1613-1625.	4.4	14
67	Involvement of protein kinase D in FcÎ³-receptor activation of the NADPH oxidase in neutrophils. Biochemical Journal, 2002, 363, 95.	3.7	13
68	Dietary Fat and Aging Modulate Apoptotic Signaling in Liver of Calorie-Restricted Mice. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2015, 70, 399-409.	3.6	13
69	HLA-B2702 (77â€“83/83â€“77) Peptide Binds to Î²-Tubulin on Human NK Cells and Blocks Their Cytotoxic Capacity. Journal of Immunology, 2000, 165, 6776-6782.	0.8	12
70	Cellular redox state and activating protein-1 are involved in ascorbate effect on calcitriol-induced differentiation. Protoplasma, 2001, 217, 129-136.	2.1	12
71	Coenzyme Q homeostasis in aging: Response to non-genetic interventions. Free Radical Biology and Medicine, 2021, 164, 285-302.	2.9	12
72	HDAC and Hsp90 inhibitors downâ€regulate PTTG1/securin but do not induce aneuploidy. Genes Chromosomes and Cancer, 2009, 48, 194-201.	2.8	11

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73	Vacuolar H+-Pyrophosphatase AVP1 is Involved in Amine Fungicide Tolerance in Arabidopsis thaliana and Provides Tridemorph Resistance in Yeast. Frontiers in Plant Science, 2016, 7, 85.	3.6	11
74	Resveratrol Regulates the Expression of Genes Involved in CoQ Synthesis in Liver in Mice Fed with High Fat Diet. Antioxidants, 2020, 9, 431.	5.1	11
75	Enhanced induction of apoptosis in a radio-resistant bladder tumor cell line by combined treatments with X-rays and wortmannin. Radiation and Environmental Biophysics, 2008, 47, 445-452.	1.4	10
76	High-Intensity Interval Training Combined With Vibration and Dietary Restriction Improves Body Composition and Blood Lipids in Obese Adults: A Randomized Trial. Dose-Response, 2018, 16, 155932581879701.	1.6	9
77	Effects of microinjected small GTPases on the actin cytoskeleton of human neutrophils. Journal of Anatomy, 2003, 203, 379-389.	1.5	8
78	The Important Role of CoQ10 in Aging. Antioxidants, 2019, 8, 570.	5.1	8
79	Coenzyme Q at the Hinge of Health and Metabolic Diseases. Antioxidants, 2021, 10, 1785.	5.1	8
80	Influence of the level of physical activity on physical fitness, lipid profile and health outcomes in overweight/obese adults with similar nutritional status. Science and Sports, 2017, 32, 278-285.	0.5	7
81	Involvement of the mitochondrial nuclease EndoG in the regulation of cell proliferation through the control of reactive oxygen species. Redox Biology, 2020, 37, 101736.	9.0	7
82	Resveratrol in Cancer: Cellular and Mitochondrial Consequences of Proton Transport Inhibition. Current Pharmaceutical Design, 2012, 18, 1338-1344.	1.9	6
83	Levels of Plasma Coenzyme Q10 Are Associated with Physical Capacity and Cardiovascular Risk in the Elderly. Antioxidants, 2022, 11, 279.	5.1	6
84	Antioxidant response induced by serum withdrawal protects HLâ€60 cells against inhibition of NAD(P)H:quinone oxidoreductase 1. BioFactors, 2003, 18, 219-228.	5.4	5
85	Cellular Models for Primary CoQ Deficiency Pathogenesis Study. International Journal of Molecular Sciences, 2021, 22, 10211.	4.1	5
86	Influencia de la capacidad funcional sobre el perfil lipÃdico, daÃ±o muscular y perfil bioquÃmico en personas mayores no institucionalizadas. Revista Andaluza De Medicina Del Deporte, 2013, 6, 57-65.	0.1	4
87	Essential role of mitochondrial dynamics in muscle physiology. Acta Physiologica, 2017, 219, 20-21.	3.8	4
88	High coenzyme Q10 plasma levels improve stress and damage markers in professional soccer players during competition. International Journal for Vitamin and Nutrition Research, 2020, , 1-12.	1.5	4
89	Omega-3 fatty acids partially revert the metabolic gene expression profile induced by long-term calorie restriction. Experimental Gerontology, 2016, 77, 29-37.	2.8	3
90	Cardiac fibroblasts display endurance to ischemia, high ROS control and elevated respiration regulated by the JAK2/STAT pathway. FEBS Journal, 2022, 289, 2540-2561.	4.7	3

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91	Plasma membrane redox system during HL-60 induced differentiation. Protoplasma, 1995, 184, 163-167.	2.1	2
92	Hypotensive acute effect of a combined resistance and walk-based exercise among over 65-year old community-dwelling women. Revista Andaluza De Medicina Del Deporte, 2012, 5, 41-47.	0.1	2
93	Facing challenges in an ageing world. Biogerontology, 2015, 16, 567-568.	3.9	2
94	Extramitochondrial Functions of Coenzyme Q. Modern Nutrition, 2000, , 83-98.	0.1	2
95	Protein Kinase C as an Effector of Lipid-Derived Second Messengers. Methods in Molecular Biology, 2009, 462, 1-11.	0.9	1
96	Extramitochondrial Coenzyme Q10 in Aging. , 2020, , 91-111.		1
97	Immunosenescence and CoQ10. , 2020, , 269-282.		1
98	Importance of CoQ10-dependent Redox Activity in Aging. Healthy Ageing and Longevity, 2022, , 185-208.	0.2	1
99	Sirtuin-Dependent Metabolic Control and Its Role in the Aging Process. , 0, , .		0
100	Physiological Aspects of Coenzyme Q10 in Plasma in Relationship with Exercise and Aging. , 2017, , 307-316.		0
101	Calorie Restriction. , 2019, , 315-315.		0
102	Coenzyme Q10 supplementation in aging. , 2020, , 183-192.		0
103	Regulation of Synthesis of Coenzyme Q10. , 2020, , 113-127.		0
104	Calorie Restriction Rescues Mitochondrial Dysfunction in Adck2-Deficient Skeletal Muscle. Frontiers in Physiology, 0, 13, .	2.8	0