JosÃ© Manuel Villalba

List of Publications by Year
in descending order

116	4,820	76326	114465
papers	citations	40 h-index	63 g-index

117	117	117	6496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CYB5R3 overexpression preserves skeletal muscle mitochondria and autophagic signaling in aged transgenic mice. GeroScience, 2022, 44, 2223-2241.	4.6	3
2	Age-dependent impact of two exercise training regimens on genomic and metabolic remodeling in skeletal muscle and liver of male mice. , 2022, 8, .		6
3	Mitochondrial health is enhanced in rats with higher vs. lower intrinsic exercise capacity and extended lifespan. Npj Aging and Mechanisms of Disease, 2021, 7, 1.	4.5	20
4	Regulation of coenzyme Q biosynthesis pathway in eukaryotes. Free Radical Biology and Medicine, 2021, 165, 312-323.	2.9	14
5	Therapeutic Potential and Immunomodulatory Role of Coenzyme Q10 and Its Analogues in Systemic Autoimmune Diseases. Antioxidants, 2021, 10, 600.	5.1	17
6	Cdkn1a transcript variant 2 is a marker of aging and cellular senescence. Aging, 2021, 13, 13380-13392.	3.1	36
7	Anti-dsDNA Antibodies Increase the Cardiovascular Risk in Systemic Lupus Erythematosus Promoting a Distinctive Immune and Vascular Activation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2417-2430.	2.4	29
8	Regulation of hepatic coenzyme Q biosynthesis by dietary omega-3 polyunsaturated fatty acids. Redox Biology, 2021, 46, 102061.	9.0	8
9	Protective Role of Nrf2 in Renal Disease. Antioxidants, 2021, 10, 39.	5.1	46
10	NQO1 protects obese mice through improvements in glucose and lipid metabolism. Npj Aging and Mechanisms of Disease, 2020, 6, 13.	4.5	20
11	Caloric Restriction, Longevity and Coenzyme Q. , 2020, , 311-328.		0
12	Mitochondrial adaptations in liver and skeletal muscle to pro-longevity nutritional and genetic interventions: the crosstalk between calorie restriction and CYB5R3 overexpression in transgenic mice. GeroScience, 2020, 42, 977-994.	4.6	7
13	Enhanced NETosis generation in radiographic axial spondyloarthritis: utility as biomarker for disease activity and anti-TNF-Î± therapy effectiveness. Journal of Biomedical Science, 2020, 27, 54.	7.0	18
14	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
15	Coenzyme Q₁₀: From bench to clinic in aging diseases, a translational review. Critical Reviews in Food Science and Nutrition, 2019, 59, 2240-2257.	10.3	62
16	Mediterranean Diet Supplemented With Coenzyme Q₁₀Modulates the Postprandial Metabolism of Advanced Glycation End Products in Elderly Men and Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, glw214.	3.6	30
17	Regulation of the oxidative balance with coenzyme Q10 sensitizes human glioblastoma cells to radiation and temozolomide. Radiotherapy and Oncology, 2018, 128, 236-244.	0.6	19
18	Overexpression of <scp>CYB</scp>5R3 and <scp>NQO</scp>1, two <scp>NAD</scp>⁺â€producing enzymes, mimics aspects of caloric restriction. Aging Cell, 2018, 17, e12767.	6.7	32

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19	Kaempferol increases levels of coenzyme Q in kidney cells and serves as a biosynthetic ring precursor. Free Radical Biology and Medicine, 2017, 110, 176-187.	2.9	32
20	Conserved and species-specific molecular denominators in mammalian skeletal muscle aging. Npj Aging and Mechanisms of Disease, 2017, 3, 8.	4.5	21
21	Protein tyrosine phosphatase 1B deficiency in podocytes mitigates hyperglycemia-induced renal injury. Metabolism: Clinical and Experimental, 2017, 76, 56-69.	3.4	27
22	Soluble epoxide hydrolase in podocytes is a significant contributor to renal function under hyperglycemia. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2758-2765.	2.4	21
23	Ubiquinol Effects on Antiphospholipid Syndrome Prothrombotic Profile. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1923-1932.	2.4	60
24	Olive Oil and the Hallmarks of Aging. Molecules, 2016, 21, 163.	3.8	59
25	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. Npj Aging and Mechanisms of Disease, 2016, 2, 16006.	4.5	57
26	Mitochondrial permeabilization without caspase activation mediates the increase of basal apoptosis in cells lacking Nrf2. Free Radical Biology and Medicine, 2016, 95, 82-95.	2.9	10
27	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
28	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-1112.	16.2	360
29	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
30	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
31	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
32	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
33	Atherosclerosis and cardiovascular disease in systemic lupus erythematosus: effects of in vivo statin treatment. Annals of the Rheumatic Diseases, 2015, 74, 1450-1458.	0.9	49
34	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
35	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
36	<scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. Aging Cell, 2014, 13, 787-796.	6.7	208

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37	Coenzyme Q10 Protects Human Endothelial Cells from Î²-Amyloid Uptake and Oxidative Stress-Induced Injury. PLoS ONE, 2014, 9, e109223.	2.5	50
38	Dietary fat modifies mitochondrial and plasma membrane apoptotic signaling in skeletal muscle of calorie-restricted mice. Age, 2013, 35, 2027-2044.	3.0	22
39	Postprandial antioxidant gene expression is modified by Mediterranean diet supplemented with coenzyme Q10 in elderly men and women. Age, 2013, 35, 159-170.	3.0	38
40	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
41	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
42	Mitochondrial dysfunction in antiphospholipid syndrome: implications in the pathogenesis of the disease and effects of coenzyme Q10 treatment. Blood, 2012, 119, 5859-5870.	1.4	82
43	A patent review of sirtuin activators: an update. Expert Opinion on Therapeutic Patents, 2012, 22, 355-367.	5.0	29
44	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
45	Mediterranean Diet Supplemented With Coenzyme Q10 Modifies the Expression of Proinflammatory and Endoplasmic Reticulum Stressâ€“Related Genes in Elderly Men and Women. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 3-10.	3.6	72
46	Sirtuin activators and inhibitors. BioFactors, 2012, 38, 349-359.	5.4	290
47	Dietary oil modifies the plasma proteome during aging in the rat. Age, 2012, 34, 341-358.	3.0	9
48	Calorie restriction modifies ubiquinone and COQ transcript levels in mouse tissues. Free Radical Biology and Medicine, 2011, 50, 1728-1736.	2.9	31
49	Postprandial antioxidant effect of the Mediterranean diet supplemented with coenzyme Q10 in elderly men and women. Age, 2011, 33, 579-590.	3.0	48
50	Genetic Deletion of Nrf2 Promotes Immortalization and Decreases Life Span of Murine Embryonic Fibroblasts. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 247-256.	3.6	28
51	ES936 stimulates DNA synthesis in HeLa cells independently on NAD(P)H:quinone oxidoreductase 1 inhibition, through a mechanism involving p38 MAPK. Chemico-Biological Interactions, 2010, 186, 174-183.	4.0	5
52	Modulation of Hepatic Apoptotic Pathways by Dietary Olive and Sunflower Oil. , 2010, , 1167-1174.		0
53	Therapeutic use of coenzyme Q₁₀and coenzyme Q₁₀-related compounds and formulations. Expert Opinion on Investigational Drugs, 2010, 19, 535-554.	4.1	112
54	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

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55	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
56	Novel biomarkers of atherosclerosis and cardiovascular risk in autoimmune diseases: Genomics and proteomics approaches. Proteomics - Clinical Applications, 2009, 3, 213-225.	1.6	10
57	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. Aging Cell, 2009, 8, 140-151.	6.7	37
58	Sirtuin inhibitors. Expert Opinion on Therapeutic Patents, 2009, 19, 283-294.	5.0	93
59	Sirtuin activators. Expert Opinion on Therapeutic Patents, 2009, 19, 403-414.	5.0	150
60	Proteomic analysis in monocytes of antiphospholipid syndrome patients: Deregulation of proteins related to the development of thrombosis. Arthritis and Rheumatism, 2008, 58, 2835-2844.	6.7	55
61	NQO1-directed antitumour quinones. Expert Opinion on Therapeutic Patents, 2007, 17, 649-665.	5.0	23
62	Redox regulation of neutral sphingomyelinase-1 activity in HEK293 cells through a GSH-dependent mechanism. Archives of Biochemistry and Biophysics, 2007, 459, 295-300.	3.0	37
63	The importance of plasma membrane coenzyme Q in aging and stress responses. Mitochondrion, 2007, 7, S34-S40.	3.4	136
64	Dicoumarol impairs mitochondrial electron transport and pyrimidine biosynthesis in human myeloid leukemia HL-60 cells. Biochemical Pharmacology, 2007, 73, 427-439.	4.4	36
65	Coenzyme Q and protein/lipid oxidation in a BSE-infected transgenic mouse model. Free Radical Biology and Medicine, 2007, 42, 1723-1729.	2.9	33
66	Modifications of plasma proteome in long-lived rats fed on a coenzyme Q10-supplemented diet. Experimental Gerontology, 2007, 42, 798-806.	2.8	46
67	Changes in Growth Pattern, Enzymatic Activities Related to Ascorbate Metabolism, and Hydrogen Peroxide in Onion Roots Growing Under Experimentally Increased Ascorbate Content. Journal of Plant Growth Regulation, 2007, 26, 341-350.	5.1	8
68	Proteomic analysis of acute myeloid leukemia: Identification of potential early biomarkers and therapeutic targets. Proteomics, 2006, 6, S293-S299.	2.2	60
69	Yeast biocapsules: A new immobilization method and their applications. Enzyme and Microbial Technology, 2006, 40, 79-84.	3.2	61
70	Stimulation of polyprenyl 4-hydroxybenzoate transferase activity by sodium cholate and 3-[(cholamidopropyl)dimethylammonio]-1-propanesulfonate. Analytical Biochemistry, 2006, 353, 15-21.	2.4	5
71	Differential regulation of hepatic apoptotic pathways by dietary olive and sunflower oils in the aging rat. Experimental Gerontology, 2006, 41, 1174-1184.	2.8	15
72	Cellular density and cell type are the key factors in growth inhibition induced by 2,5bis [1-aziridinyl]-1,4 benzoquinone (DZQ). Anticancer Research, 2006, 26, 3535-40.	1.1	11

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73	Determination of coenzyme Q biosynthesis in cultured cells without the necessity for lipid extraction. Analytical Biochemistry, 2005, 336, 60-63.	2.4	5
74	Coenzyme Q and the regulation of intracellular steadyâ€state levels of superoxide in HLâ€60 cells. BioFactors, 2005, 25, 31-41.	5.4	23
75	PGE1abolishes the mitochondrial-independent cell death pathway induced by D-galactosamine in primary culture of rat hepatocytes. Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 108-116.	2.8	16
76	Enhanced anti-oxidant protection of liver membranes in long-lived rats fed on a coenzyme Q10-supplemented diet. Experimental Gerontology, 2005, 40, 694-706.	2.8	57
77	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
78	Coenzyme Q-dependent functions of plasma membrane in the aging process. Age, 2005, 27, 139-146.	3.0	9
79	Changes in intracellular and apoplastic peroxidase activity, ascorbate redox status, and root elongation induced by enhanced ascorbate content in Allium cepa L.. Journal of Experimental Botany, 2005, 56, 685-694.	4.8	40
80	Regulation of Ceramide Signaling by Plasma Membrane Coenzyme Q Reductases. Methods in Enzymology, 2004, 378, 200-206.	1.0	17
81	Stabilization of Extracellular Ascorbate Mediated by Coenzyme Q Transmembrane Electron Transport. Methods in Enzymology, 2004, 378, 207-217.	1.0	10
82	NAD(P)H:Quinone Oxidoreductase 1 Expression, Hydrogen Peroxide Levels, and Growth Phase in HeLa Cells. Methods in Enzymology, 2004, 382, 234-243.	1.0	9
83	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
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	Regeneration of lipophilic antioxidants by NAD(P)H:quinone oxidoreductase 1. Protoplasma, 2003, 221, 129-135.	2.1	18
86	Differential distribution of ascorbic acid, peroxidase activity, and hydrogen peroxide along the root axis in Allium cepa L. and its possible relationship with cell growth and differentiation. Protoplasma, 2003, 221, 57-65.	2.1	33
87	Zonal Changes in Ascorbate and Hydrogen Peroxide Contents, Peroxidase, and Ascorbate-Related Enzyme Activities in Onion Roots. Plant Physiology, 2003, 131, 697-706.	4.8	91
88	Functional complementation of yeast cytosolic pyrophosphatase by bacterial and plant H+-translocating pyrophosphatases. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15914-15919.	7.1	49
89	Ubiquinol inhibition of neutral sphingomyelinase in liver plasma membrane: specific inhibition of the Mg2+-dependent enzyme and role of isoprenoid chain. Biochemical and Biophysical Research Communications, 2002, 297, 581-586.	2.1	20
90	Synthesis of the F11334's from o-prenylated phenols: Î¼M inhibitors of neutral sphingomyelinase (N-SMase). Tetrahedron, 2002, 58, 4559-4565.	1.9	31

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91	Localization of the plasma membrane H+-ATPase in Fe-deficient cucumber roots by immunodetection. Plant and Soil, 2002, 241, 11-17.	3.7	29
92	A novel plasma membrane quinone reductase and NAD(P)H:quinone oxidoreductase 1 are upregulated by serum withdrawal in human promyelocytic HL-60 cells. Journal of Bioenergetics and Biomembranes, 2002, 34, 209-219.	2.3	20
93	Neutral magnesium-dependent sphingomyelinase from liver plasma membrane: purification and inhibition by ubiquinol. Journal of Bioenergetics and Biomembranes, 2001, 33, 143-153.	2.3	31
94	Expression of NAD(P)H:Quinone Oxidoreductase 1 in HeLa Cells. Journal of Biological Chemistry, 2001, 276, 44379-44384.	3.4	43
95	Interactions between ascorbyl free radical and coenzyme Q at the plasma membrane. Journal of Bioenergetics and Biomembranes, 2000, 32, 199-210.	2.3	42
96	NADH and NADPH-Dependent Reduction of Coenzyme Q at the Plasma Membrane. Antioxidants and Redox Signaling, 2000, 2, 251-262.	5.4	33
97	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
98	Plasma Membrane Redox System in the Control of Stress-Induced Apoptosis. Antioxidants and Redox Signaling, 2000, 2, 213-230.	5.4	110
99	Extramitochondrial Functions of Coenzyme Q. Modern Nutrition, 2000, , 83-98.	0.1	2
100	Protective role of ubiquinone in vitamin E and seleniumâ€deficient plasma membranes. BioFactors, 1999, 9, 163-170.	5.4	49
101	Genetic evidence for coenzyme Q requirement in plasma membrane electron transport. Journal of Bioenergetics and Biomembranes, 1998, 30, 465-475.	2.3	55
102	Plasma membrane NADH-coenzyme Q0 reductase generates semiquinone radicals and recycles vitamin E homologue in a superoxide-dependent reaction. FEBS Letters, 1998, 428, 43-46.	2.8	53
103	Antioxidative Role of Ubiquinone in the Animal Plasma Membrane. , 1998, , 247-265.		10
104	Antioxidant ascorbate is stabilized by NADH-coenzyme Q10 reductase in the plasma membrane. Journal of Bioenergetics and Biomembranes, 1997, 29, 251-257.	2.3	71
105	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
106	Modified plant plasma membrane H+-ATPase with improved transport coupling efficiency identified by mutant selection in yeast. Plant Journal, 1996, 10, 451-458.	5.7	67
107	Localization of plasma membrane H+-ATPase in nodules of Phaseolus vulgaris L.. Plant Molecular Biology, 1996, 32, 1043-1053.	3.9	19
108	Ascorbate and the Plasma Membrane A New View of Cell Growth Control. Sub-Cellular Biochemistry, 1996, 25, 57-81.	2.4	14

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109	C-Terminal Deletion Analysis of Plant Plasma Membrane H + -ATPase: Yeast as a Model System for Solute Transport across the Plant Plasma Membrane. Plant Cell, 1995, 7, 1655.	6.6	54
110	Expression of the sarcoplasmic reticulum Ca2+-ATPase in yeast. FEBS Letters, 1994, 354, 117-122.	2.8	41
111	Epitope mapping and accessibility of immunodominant regions of yeast plasma membrane H+-ATPase. FEBS Journal, 1993, 212, 737-744.	0.2	29
112	Studies of the plasma membrane H+-ATPase of yeast and plants. Biochemical Society Transactions, 1992, 20, 562-566.	3.4	12
113	Growth factor-stimulated trans plasma membrane electron transport in HL-60 cells. FEBS Letters, 1992, 299, 223-226.	2.8	43
114	Ascorbate is regenerated by HL-60 cells through the transplasmalemma redox system. Biochimica Et Biophysica Acta - General Subjects, 1991, 1073, 380-385.	2.4	73
115	Lectin binding patterns in amphibian epidermis. Acta Histochemica, 1987, 81, 51-57.	1.8	17
116	CHAPTER 12. Therapeutic Potential of Sirtuin Inhibitors in Cancer. RSC Drug Discovery Series, 0, , 298-327.	0.3	0