

JosÃ© Manuel Villalba

List of Publications by Year in descending order

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116
papers

4,820
citations

76326

40
h-index

114465

63
g-index

117
all docs

117
docs citations

117
times ranked

6496
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. <i>Cell Metabolism</i> , 2016, 23, 1093-1112.	16.2	360
2	Sirtuin activators and inhibitors. <i>BioFactors</i> , 2012, 38, 349-359.	5.4	290
3	<scp>SRT</scp> 2104 extends survival of male mice on a standard diet and preserves bone and muscle mass. <i>Aging Cell</i> , 2014, 13, 787-796.	6.7	208
4	Sirtuin activators. <i>Expert Opinion on Therapeutic Patents</i> , 2009, 19, 403-414.	5.0	150
5	The importance of plasma membrane coenzyme Q in aging and stress responses. <i>Mitochondrion</i> , 2007, 7, S34-S40.	3.4	136
6	Therapeutic use of coenzyme Q₁₀ and coenzyme Q₁₀-related compounds and formulations. <i>Expert Opinion on Investigational Drugs</i> , 2010, 19, 535-554.	4.1	112
7	Plasma Membrane Redox System in the Control of Stress-Induced Apoptosis. <i>Antioxidants and Redox Signaling</i> , 2000, 2, 213-230.	5.4	110
8	Sirtuin inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2009, 19, 283-294.	5.0	93
9	Zonal Changes in Ascorbate and Hydrogen Peroxide Contents, Peroxidase, and Ascorbate-Related Enzyme Activities in Onion Roots. <i>Plant Physiology</i> , 2003, 131, 697-706.	4.8	91
10	Mitochondrial dysfunction in antiphospholipid syndrome: implications in the pathogenesis of the disease and effects of coenzyme Q10 treatment. <i>Blood</i> , 2012, 119, 5859-5870.	1.4	82
11	Ascorbate is regenerated by HL-60 cells through the transplasmalemma redox system. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1991, 1073, 380-385.	2.4	73
12	Mediterranean Diet Supplemented With Coenzyme Q10 Modifies the Expression of Proinflammatory and Endoplasmic Reticulum Stress-Related Genes in Elderly Men and Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 3-10.	3.6	72
13	Antioxidant ascorbate is stabilized by NADH-coenzyme Q10 reductase in the plasma membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 251-257.	2.3	71
14	Modified plant plasma membrane H ⁺ -ATPase with improved transport coupling efficiency identified by mutant selection in yeast. <i>Plant Journal</i> , 1996, 10, 451-458.	5.7	67
15	Plasma membrane ubiquinone controls ceramide production and prevents cell death induced by serum withdrawal. <i>Journal of Bioenergetics and Biomembranes</i> , 1997, 29, 259-267.	2.3	67
16	Coenzyme Q₁₀: From bench to clinic in aging diseases, a translational review. <i>Critical Reviews in Food Science and Nutrition</i> , 2019, 59, 2240-2257.	10.3	62
17	Yeast biocapsules: A new immobilization method and their applications. <i>Enzyme and Microbial Technology</i> , 2006, 40, 79-84.	3.2	61
18	Proteomic analysis of acute myeloid leukemia: Identification of potential early biomarkers and therapeutic targets. <i>Proteomics</i> , 2006, 6, S293-S299.	2.2	60

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19	Ubiquinol Effects on Antiphospholipid Syndrome Prothrombotic Profile. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1923-1932.	2.4	60
20	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.	4.0	59
21	Olive Oil and the Hallmarks of Aging. <i>Molecules</i> , 2016, 21, 163.	3.8	59
22	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.	2.8	57
23	Cytochrome b5 reductase and the control of lipid metabolism and healthspan. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, 16006.	4.5	57
24	Genetic evidence for coenzyme Q requirement in plasma membrane electron transport. <i>Journal of Bioenergetics and Biomembranes</i> , 1998, 30, 465-475.	2.3	55
25	Proteomic analysis in monocytes of antiphospholipid syndrome patients: Deregulation of proteins related to the development of thrombosis. <i>Arthritis and Rheumatism</i> , 2008, 58, 2835-2844.	6.7	55
26	C-Terminal Deletion Analysis of Plant Plasma Membrane H ⁺ -ATPase: Yeast as a Model System for Solute Transport across the Plant Plasma Membrane. <i>Plant Cell</i> , 1995, 7, 1655.	6.6	54
27	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, 43-46.	2.8	53
28	Coenzyme Q10 Protects Human Endothelial Cells from β^2 -Amyloid Uptake and Oxidative Stress-Induced Injury. <i>PLoS ONE</i> , 2014, 9, e109223.	2.5	50
29	Protective role of ubiquinone in vitamin E and selenium-deficient plasma membranes. <i>BioFactors</i> , 1999, 9, 163-170.	5.4	49
30	Functional complementation of yeast cytosolic pyrophosphatase by bacterial and plant H ⁺ -translocating pyrophosphatases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15914-15919.	7.1	49
31	Atherosclerosis and cardiovascular disease in systemic lupus erythematosus: effects of in vivo statin treatment. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1450-1458.	0.9	49
32	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.	2.5	49
33	Postprandial antioxidant effect of the Mediterranean diet supplemented with coenzyme Q10 in elderly men and women. <i>Age</i> , 2011, 33, 579-590.	3.0	48
34	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, 263-275.	5.4	47
35	Modifications of plasma proteome in long-lived rats fed on a coenzyme Q10-supplemented diet. <i>Experimental Gerontology</i> , 2007, 42, 798-806.	2.8	46
36	Protective Role of Nrf2 in Renal Disease. <i>Antioxidants</i> , 2021, 10, 39.	5.1	46

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37	Growth factor-stimulated trans plasma membrane electron transport in HL-60 cells. <i>FEBS Letters</i> , 1992, 299, 223-226.	2.8	43
38	Expression of NAD(P)H:Quinone Oxidoreductase 1 in HeLa Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 44379-44384.	3.4	43
39	Interactions between ascorbyl free radical and coenzyme Q at the plasma membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 199-210.	2.3	42
40	Expression of the sarcoplasmic reticulum Ca ²⁺ -ATPase in yeast. <i>FEBS Letters</i> , 1994, 354, 117-122.	2.8	41
41	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, 1023-1034.	3.6	41
42	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, 1708-1725.	5.4	41
43	Changes in intracellular and apoplastic peroxidase activity, ascorbate redox status, and root elongation induced by enhanced ascorbate content in <i>Allium cepa</i> L.. <i>Journal of Experimental Botany</i> , 2005, 56, 685-694.	4.8	40
44	Postprandial antioxidant gene expression is modified by Mediterranean diet supplemented with coenzyme Q10 in elderly men and women. <i>Age</i> , 2013, 35, 159-170.	3.0	38
45	Redox regulation of neutral sphingomyelinase-1 activity in HEK293 cells through a GSH-dependent mechanism. <i>Archives of Biochemistry and Biophysics</i> , 2007, 459, 295-300.	3.0	37
46	NQR1 controls lifespan by regulating the promotion of respiratory metabolism in yeast. <i>Aging Cell</i> , 2009, 8, 140-151.	6.7	37
47	Dicoumarol impairs mitochondrial electron transport and pyrimidine biosynthesis in human myeloid leukemia HL-60 cells. <i>Biochemical Pharmacology</i> , 2007, 73, 427-439.	4.4	36
48	Cdkn1a transcript variant 2 is a marker of aging and cellular senescence. <i>Aging</i> , 2021, 13, 13380-13392.	3.1	36
49	Hydrogen peroxide- and cell-density-regulated expression of NADH-cytochrome b5 reductase in HeLa cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2003, 35, 169-179.	2.3	34
50	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, 1181-1188.	3.6	34
51	NADH and NADPH-Dependent Reduction of Coenzyme Q at the Plasma Membrane. <i>Antioxidants and Redox Signaling</i> , 2000, 2, 251-262.	5.4	33
52	Differential distribution of ascorbic acid, peroxidase activity, and hydrogen peroxide along the root axis in <i>Allium cepa</i> L. and its possible relationship with cell growth and differentiation. <i>Protoplasma</i> , 2003, 221, 57-65.	2.1	33
53	Coenzyme Q and protein/lipid oxidation in a BSE-infected transgenic mouse model. <i>Free Radical Biology and Medicine</i> , 2007, 42, 1723-1729.	2.9	33
54	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.	3.6	33

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55	Kaempferol increases levels of coenzyme Q in kidney cells and serves as a biosynthetic ring precursor. <i>Free Radical Biology and Medicine</i> , 2017, 110, 176-187.	2.9	32
56	Overexpression of <sc>CYB</sc>5R3 and <sc>NQO</sc>1, two <sc>NAD</sc>⁺-producing enzymes, mimics aspects of caloric restriction. <i>Aging Cell</i> , 2018, 17, e12767.	6.7	32
57	Neutral magnesium-dependent sphingomyelinase from liver plasma membrane: purification and inhibition by ubiquinol. <i>Journal of Bioenergetics and Biomembranes</i> , 2001, 33, 143-153.	2.3	31
58	Synthesis of the F11334's from o-prenylated phenols: 1/4M inhibitors of neutral sphingomyelinase (N-SMase). <i>Tetrahedron</i> , 2002, 58, 4559-4565.	1.9	31
59	Calorie restriction modifies ubiquinone and COQ transcript levels in mouse tissues. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1728-1736.	2.9	31
60	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, 1121-1131.	3.6	31
61	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.	2.8	30
62	Mediterranean Diet Supplemented With Coenzyme Q₁₀ Modulates the Postprandial Metabolism of Advanced Glycation End Products in Elderly Men and Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, glw214.	3.6	30
63	Epitope mapping and accessibility of immunodominant regions of yeast plasma membrane H⁺-ATPase. <i>FEBS Journal</i> , 1993, 212, 737-744.	0.2	29
64	Localization of the plasma membrane H⁺-ATPase in Fe-deficient cucumber roots by immunodetection. <i>Plant and Soil</i> , 2002, 241, 11-17.	3.7	29
65	A patent review of sirtuin activators: an update. <i>Expert Opinion on Therapeutic Patents</i> , 2012, 22, 355-367.	5.0	29
66	Anti-dsDNA Antibodies Increase the Cardiovascular Risk in Systemic Lupus Erythematosus Promoting a Distinctive Immune and Vascular Activation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 2417-2430.	2.4	29
67	Genetic Deletion of Nrf2 Promotes Immortalization and Decreases Life Span of Murine Embryonic Fibroblasts. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2011, 66A, 247-256.	3.6	28
68	The influence of dietary lipid composition on liver mitochondria from mice following 1 month of calorie restriction. <i>Bioscience Reports</i> , 2013, 33, 83-95.	2.4	28
69	Protein tyrosine phosphatase 1B deficiency in podocytes mitigates hyperglycemia-induced renal injury. <i>Metabolism: Clinical and Experimental</i> , 2017, 76, 56-69.	3.4	27
70	Coenzyme Q and the regulation of intracellular steady-state levels of superoxide in HL60 cells. <i>BioFactors</i> , 2005, 25, 31-41.	5.4	23
71	NQO1-directed antitumour quinones. <i>Expert Opinion on Therapeutic Patents</i> , 2007, 17, 649-665.	5.0	23
72	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, 477-487.	6.7	23

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73	Dietary fat modifies mitochondrial and plasma membrane apoptotic signaling in skeletal muscle of calorie-restricted mice. <i>Age</i> , 2013, 35, 2027-2044.	3.0	22
74	Conserved and species-specific molecular denominators in mammalian skeletal muscle aging. <i>Npj Aging and Mechanisms of Disease</i> , 2017, 3, 8.	4.5	21
75	Soluble epoxide hydrolase in podocytes is a significant contributor to renal function under hyperglycemia. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2758-2765.	2.4	21
76	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, 581-586.	2.1	20
77	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, 209-219.	2.3	20
78	NQO1 protects obese mice through improvements in glucose and lipid metabolism. <i>Npj Aging and Mechanisms of Disease</i> , 2020, 6, 13.	4.5	20
79	Mitochondrial health is enhanced in rats with higher vs. lower intrinsic exercise capacity and extended lifespan. <i>Npj Aging and Mechanisms of Disease</i> , 2021, 7, 1.	4.5	20
80	Localization of plasma membrane H ⁺ -ATPase in nodules of <i>Phaseolus vulgaris</i> L.. <i>Plant Molecular Biology</i> , 1996, 32, 1043-1053.	3.9	19
81	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, 655-670.	3.9	19
82	Regulation of the oxidative balance with coenzyme Q10 sensitizes human glioblastoma cells to radiation and temozolomide. <i>Radiotherapy and Oncology</i> , 2018, 128, 236-244.	0.6	19
83	Regeneration of lipophilic antioxidants by NAD(P)H:quinone oxidoreductase 1. <i>Protoplasma</i> , 2003, 221, 129-135.	2.1	18
84	Enhanced NETosis generation in radiographic axial spondyloarthritis: utility as biomarker for disease activity and anti-TNF- α therapy effectiveness. <i>Journal of Biomedical Science</i> , 2020, 27, 54.	7.0	18
85	Lectin binding patterns in amphibian epidermis. <i>Acta Histochemica</i> , 1987, 81, 51-57.	1.8	17
86	Regulation of Ceramide Signaling by Plasma Membrane Coenzyme Q Reductases. <i>Methods in Enzymology</i> , 2004, 378, 200-206.	1.0	17
87	Therapeutic Potential and Immunomodulatory Role of Coenzyme Q10 and Its Analogues in Systemic Autoimmune Diseases. <i>Antioxidants</i> , 2021, 10, 600.	5.1	17
88	PGE1abolishes the mitochondrial-independent cell death pathway induced by D-galactosamine in primary culture of rat hepatocytes. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2005, 20, 108-116.	2.8	16
89	Differential regulation of hepatic apoptotic pathways by dietary olive and sunflower oils in the aging rat. <i>Experimental Gerontology</i> , 2006, 41, 1174-1184.	2.8	15
90	Dicoumarol relieves serum withdrawal-induced G0/1 blockade in HL-60 cells through a superoxide-dependent mechanism. <i>Biochemical Pharmacology</i> , 2005, 69, 1613-1625.	4.4	14

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91	Regulation of coenzyme Q biosynthesis pathway in eukaryotes. <i>Free Radical Biology and Medicine</i> , 2021, 165, 312-323.	2.9	14
92	Ascorbate and the Plasma Membrane A New View of Cell Growth Control. <i>Sub-Cellular Biochemistry</i> , 1996, 25, 57-81.	2.4	14
93	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.	3.6	13
94	Studies of the plasma membrane H ⁺ -ATPase of yeast and plants. <i>Biochemical Society Transactions</i> , 1992, 20, 562-566.	3.4	12
95	Cellular density and cell type are the key factors in growth inhibition induced by 2,5bis [1-aziridinyl]-1,4 benzoquinone (DZQ). <i>Anticancer Research</i> , 2006, 26, 3535-40.	1.1	11
96	Stabilization of Extracellular Ascorbate Mediated by Coenzyme Q Transmembrane Electron Transport. <i>Methods in Enzymology</i> , 2004, 378, 207-217.	1.0	10
97	Novel biomarkers of atherosclerosis and cardiovascular risk in autoimmune diseases: Genomics and proteomics approaches. <i>Proteomics - Clinical Applications</i> , 2009, 3, 213-225.	1.6	10
98	Mitochondrial permeabilization without caspase activation mediates the increase of basal apoptosis in cells lacking Nrf2. <i>Free Radical Biology and Medicine</i> , 2016, 95, 82-95.	2.9	10
99	Antioxidative Role of Ubiquinone in the Animal Plasma Membrane. , 1998, , 247-265.		10
100	NAD(P)H:Quinone Oxidoreductase 1 Expression, Hydrogen Peroxide Levels, and Growth Phase in HeLa Cells. <i>Methods in Enzymology</i> , 2004, 382, 234-243.	1.0	9
101	Coenzyme Q-dependent functions of plasma membrane in the aging process. <i>Age</i> , 2005, 27, 139-146.	3.0	9
102	Dietary oil modifies the plasma proteome during aging in the rat. <i>Age</i> , 2012, 34, 341-358.	3.0	9
103	Changes in Growth Pattern, Enzymatic Activities Related to Ascorbate Metabolism, and Hydrogen Peroxide in Onion Roots Growing Under Experimentally Increased Ascorbate Content. <i>Journal of Plant Growth Regulation</i> , 2007, 26, 341-350.	5.1	8
104	Regulation of hepatic coenzyme Q biosynthesis by dietary omega-3 polyunsaturated fatty acids. <i>Redox Biology</i> , 2021, 46, 102061.	9.0	8
105	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. <i>GeroScience</i> , 2020, 42, 977-994.	4.6	7
106	Age-dependent impact of two exercise training regimens on genomic and metabolic remodeling in skeletal muscle and liver of male mice. , 2022, 8, .		6
107	Antioxidant response induced by serum withdrawal protects HLâ€60 cells against inhibition of NAD(P)H:quinone oxidoreductase 1. <i>BioFactors</i> , 2003, 18, 219-228.	5.4	5
108	Determination of coenzyme Q biosynthesis in cultured cells without the necessity for lipid extraction. <i>Analytical Biochemistry</i> , 2005, 336, 60-63.	2.4	5

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109	Stimulation of polyprenyl 4-hydroxybenzoate transferase activity by sodium cholate and 3-[(cholamidopropyl)dimethylammonio]-1-propanesulfonate. <i>Analytical Biochemistry</i> , 2006, 353, 15-21.	2.4	5
110	ES936 stimulates DNA synthesis in HeLa cells independently on NAD(P)H:quinone oxidoreductase 1 inhibition, through a mechanism involving p38 MAPK. <i>Chemico-Biological Interactions</i> , 2010, 186, 174-183.	4.0	5
111	Omega-3 fatty acids partially revert the metabolic gene expression profile induced by long-term calorie restriction. <i>Experimental Gerontology</i> , 2016, 77, 29-37.	2.8	3
112	CYB5R3 overexpression preserves skeletal muscle mitochondria and autophagic signaling in aged transgenic mice. <i>GeroScience</i> , 2022, 44, 2223-2241.	4.6	3
113	Extramitochondrial Functions of Coenzyme Q. <i>Modern Nutrition</i> , 2000, , 83-98.	0.1	2
114	Modulation of Hepatic Apoptotic Pathways by Dietary Olive and Sunflower Oil. , 2010, , 1167-1174.		0
115	Caloric Restriction, Longevity and Coenzyme Q. , 2020, , 311-328.		0
116	CHAPTER 12. Therapeutic Potential of Sirtuin Inhibitors in Cancer. <i>RSC Drug Discovery Series</i> , 0, , 298-327.	0.3	0