Antonio Ayala

List of Publications by Year
in descending order

53 papers	5,143 citations	279487 23 h-index	182168 51 g-index
53 all docs	53 docs citations	53 times ranked	9512 citing authors

#	Article	IF	Citations
1	Lipid Peroxidation: Production, Metabolism, and Signaling Mechanisms of Malondialdehyde and 4-Hydroxy-2-Nonenal. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-31.	1.9	3,650
2	Chronic stress as a risk factor for Alzheimerâ€™s disease. Reviews in the Neurosciences, 2014, 25, 785-804.	1.4	132
3	Do the serum oxidative stress biomarkers provide a reasonable index of the general oxidative stress status?. Biochimica Et Biophysica Acta - General Subjects, 2004, 1674, 251-259.	1.1	97
4	Low selenium diet increases the dopamine turnover in prefrontal cortex of the rat. Neurochemistry International, 1997, 30, 549-555.	1.9	81
5	Correlation between circulating biomarkers of oxidative stress of maternal and umbilical cord blood at birth. Free Radical Research, 2006, 40, 565-570.	1.5	80
6	Role of Melatonin in the Inflammatory Process and its Therapeutic Potential. Current Pharmaceutical Design, 2018, 24, 1563-1588.	0.9	80
7	Effect of Oxidative Stress, Produced by Cumene Hydroperoxide, on the Various Steps of Protein Synthesis. Journal of Biological Chemistry, 1996, 271, 23105-23110.	1.6	79
8	Protective effect of melatonin against the 1-methyl-4-phenylpyridinium-induced inhibition of Complex I of the mitochondrial respiratory chain. Journal of Pineal Research, 2000, 29, 40-47.	3.4	76
9	Oxidative stress is increased in critically ill patients according to antioxidant vitamins intake, independent of severity: a cohort study. Critical Care, 2006, 10, R146.	2.5	76
10	Mitochondrial toxins and neurodegenerative diseases. Frontiers in Bioscience - Landmark, 2007, 12, 986.	3.0	53
11	Rosmarinus officinalis L. (Rosemary): An Ancient Plant with Uses in Personal Healthcare and Cosmetics. Cosmetics, 2020, 7, 77.	1.5	50
12	Effects of aging on the various steps of protein synthesis: fragmentation of elongation factor 2. Free Radical Biology and Medicine, 1999, 26, 362-370.	1.3	49
13	Elongation factor 2 diphthamide is critical for translation of two IRES-dependent protein targets, XIAP and FGF2, under oxidative stress conditions. Free Radical Biology and Medicine, 2014, 67, 131-138.	1.3	44
14	Advantages and disadvantages of apoptosis in the aging process. Annals of the New York Academy of Sciences, 2019, 1443, 20-33.	1.8	43
15	Impairment of Mineralocorticoid Receptor (MR)-dependent Biological Response by Oxidative Stress and Aging. Journal of Biological Chemistry, 2002, 277, 11896-11903.	1.6	38
16	Dysregulation of the Hippo pathway signaling in aging and cancer. Pharmacological Research, 2019, 143, 151-165.	3.1	34
17	Use of rotofor preparative isoelectrofocusing cell in protein purification procedure. Applied Biochemistry and Biotechnology, 1998, 69, 11-16.	1.4	30
18	The Endogenous Amine 1-Methyl-1,2,3,4- Tetrahydroisoquinoline Prevents the Inhibition of Complex I of the Respiratory Chain Produced by MPP+. Journal of Neurochemistry, 2001, 75, 65-71.	2.1	29

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19	Reduction of 1-methyl 1,2,3,4-tetrahydroisoquinoline level in substantia nigra of the aged rat. Brain Research, 1994, 638, 334-336.	1.1	28
20	Malic enzyme levels are increased by the activation of NADPH-consuming pathways: detoxification processes. FEBS Letters, 1986, 202, 102-106.	1.3	26
21	Effect of aging and oxidative stress on elongation factor-2 in hypothalamus and hypophysis. Mechanisms of Ageing and Development, 2011, 132, 55-64.	2.2	26
22	Chronic stress alters the expression levels of longevity-related genes in the rat hippocampus. Neurochemistry International, 2016, 97, 181-192.	1.9	26
23	A Preliminary Analysis of Within-Subject Variation in Human Serum Oxidative Stress Parameters as a Function of Time. Rejuvenation Research, 2007, 10, 621-636.	0.9	24
24	Adduct formation of 4-hydroxynonenal and malondialdehyde with elongation factor-2 in vitro and in vivo. Free Radical Biology and Medicine, 2009, 47, 324-330.	1.3	24
25	Cell tracking, survival, and differentiation capacity of adiposeâ€derived stem cells after engraftment in rat tissue. Journal of Cellular Physiology, 2018, 233, 6317-6328.	2.0	24
26	Molecular control of the amount, subcellular location, and activity state of translation elongation factor 2 in neurons experiencing stress. Free Radical Biology and Medicine, 2013, 61, 61-71.	1.3	22
27	Targeting pro-senescence mitogen activated protein kinase (Mapk) enzymes with bioactive natural compounds. Food and Chemical Toxicology, 2019, 131, 110544.	1.8	20
28	Changes in Superoxide Dismutase Activity in Liver and Lung of Old Rats. Free Radical Research, 1996, 25, 401-405.	1.5	19
29	Effect of prenatal exposure to ethanol on hepatic elongation factor-2 and proteome in 21 d old rats: protective effect of folic acid. Free Radical Biology and Medicine, 2003, 35, 428-437.	1.3	17
30	Adiposeâ€derived stem cells decreased microglia activation and protected dopaminergic loss in rat lipopolysaccharide model. Journal of Cellular Physiology, 2019, 234, 13762-13772.	2.0	15
31	â€œIn vitroâ€•effect of lipid peroxidation metabolites on elongation factor-2. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 445-452.	1.1	14
32	In vitro and in vivo protection by melatonin against the decline of elongation factorâ€2 caused by lipid peroxidation: preservation of protein synthesis. Journal of Pineal Research, 2012, 53, 1-10.	3.4	12
33	Beneficial effect of refined red palm oil on lipid peroxidation and monocyte tissue factor in HCV-related liver disease: a randomizer controller study. Hepatobiliary and Pancreatic Diseases International, 2016, 15, 165-172.	0.6	11
34	Time and dose dependent effects of oxidative stress induced by cumene hydroperoxide in neuronal excitability of rat motor cortex neurons. NeuroToxicology, 2016, 53, 201-214.	1.4	11
35	Immunolocalization of Substance P and NKâ€1 Receptor in ADIPOSE Stem Cells. Journal of Cellular Biochemistry, 2017, 118, 4686-4696.	1.2	11
36	The Neurokinin-1 Receptor Is Essential for the Viability of Human Glioma Cells: A Possible Target for Treating Glioblastoma. BioMed Research International, 2022, 2022, 1-13.	0.9	11

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37	Involvement of diminution of glutathione, produced by deficiency of methionine in the diet, in the elevation of malic enzyme level in rat liver. Lipids and Lipid Metabolism, 1991, 1084, 48-52.	2.6	10
38	Effects of short-term supplementation with folic acid on different oxidative stress parameters in patients with hypertension. Biochimica Et Biophysica Acta - General Subjects, 2005, 1726, 152-159.	1.1	10
39	Aging and Oxidative Stress Decrease Pineal Elongation Factor 2: In Vivo Protective Effect of Melatonin in Young Rats Treated With Cumene Hydroperoxide. Journal of Cellular Biochemistry, 2017, 118, 182-190.	1.2	9
40	Application of Kinase Inhibitors for Anti-aging Intervention. Current Pharmaceutical Design, 2017, 23, 4351-4368.	0.9	9
41	Effect of Age and Lipoperoxidation in Rat and Human Adipose Tissue-Derived Stem Cells. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-20.	1.9	8
42	Induced mono-(ADP)-ribosylation of rat liver cytosolic proteins by lipid peroxidant agents. Free Radical Biology and Medicine, 1999, 26, 1079-1084.	1.3	7
43	Semichronic Inhibition of Glutathione Reductase Promotes Oxidative Damage to Proteins and Induces both Transcription and Translation of Tyrosine Hydroxylase in the Nigrostriatal System. Free Radical Research, 2003, 37, 1003-1012.	1.5	6
44	Effects on goal directed behavior and habit in two animal models of Parkinsonâ€™s disease. Neurobiology of Learning and Memory, 2020, 169, 107190.	1.0	6
45	Comparison of methods for sample preparation of individual rat cerebrospinal fluid samples prior to two-dimensional polyacrylamide gel electrophoresis. Biotechnology Letters, 2003, 25, 1899-1903.	1.1	4
46	Effect of VBC-1814/7J, a poly-phytocompound, on a non-infectious model of pharyngitis. Experimental and Therapeutic Medicine, 2017, 13, 3075-3080.	0.8	4
47	Comparative Study of thein VitroProtective Effects of Several Antioxidants on Elongation Factor 2 under Oxidative Stress Conditions. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1373-1379.	0.6	3
48	Natural Compounds as Integrative Therapy for Liver Protection against Inflammatory and Carcinogenic Mechanisms: From Induction to Molecular Biology Advancement. Current Molecular Medicine, 2023, 23, 216-231.	0.6	2
49	A convenient procedure for quantitative analysis of stained or immunostained blotting membranes by densitometry. Biotechnology Letters, 1995, 9, 29-30.	0.5	1
50	One-step electroblotting of 2- to 100-kDa proteins onto a PVDF membrane. Applied Biochemistry and Biotechnology, 1995, 53, 285-292.	1.4	1
51	â€˜In vitroâ€™ Protective Effect of a Hydrophilic Vitamin E Analogue on the Decrease in Levels of Elongation Factor 2 in Conditions of Oxidative Stress. Gerontology, 2007, 53, 282-288.	1.4	1
52	Advanced therapy medicinal products: Gene therapy. Pharmaceuticals Policy and Law, 2015, 17, 253-264.	0.1	0
53	Hydroxytyrosol, olive oil, and use in aging. , 2021, , 537-546.		0