

Mario D Cordero

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

10,057
citations

87401

40
h-index

40945

97
g-index

108
all docs

108
docs citations

108
times ranked

21907
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. <i>Cell</i> , 2020, 183, 94-109.e23.	13.5	360
3	NLRP3 inflammasome is activated in mononuclear blood cells from patients with major depressive disorder. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 111-117.	2.0	343
4	One-month strawberry-rich anthocyanin supplementation ameliorates cardiovascular risk, oxidative stress markers and platelet activation in humans. <i>Journal of Nutritional Biochemistry</i> , 2014, 25, 289-294.	1.9	286
5	Coenzyme Q deficiency triggers mitochondria degradation by mitophagy. <i>Autophagy</i> , 2009, 5, 19-32.	4.3	179
6	Antidepressants induce autophagy dependent-NLRP3-inflammasome inhibition in Major depressive disorder. <i>Pharmacological Research</i> , 2017, 121, 114-121.	3.1	159
7	Stress-Induced Depressive Behaviors Require a Functional NLRP3 Inflammasome. <i>Molecular Neurobiology</i> , 2016, 53, 4874-4882.	1.9	134
8	Missense mutation of the COQ2 gene causes defects of bioenergetics and de novo pyrimidine synthesis. <i>Human Molecular Genetics</i> , 2007, 16, 1091-1097.	1.4	129
9	Secondary coenzyme Q ₁₀ deficiency triggers mitochondria degradation by mitophagy in MELAS fibroblasts. <i>FASEB Journal</i> , 2011, 25, 2669-2687.	0.2	122
10	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.	1.6	120
11	Coenzyme Q ₁₀ ; Therapy. <i>Molecular Syndromology</i> , 2014, 5, 187-197.	0.3	118
12	Clinical applications of coenzyme Q ₁₀ . <i>Frontiers in Bioscience - Landmark</i> , 2014, 19, 619.	3.0	116
13	AMP-Activated Protein Kinase Regulation of the NLRP3 Inflammasome during Aging. <i>Trends in Endocrinology and Metabolism</i> , 2018, 29, 8-17.	3.1	111
14	NLRP3 inflammasome suppression improves longevity and prevents cardiac aging in male mice. <i>Aging Cell</i> , 2020, 19, e13050.	3.0	111
15	Autophagy in periodontitis patients and gingival fibroblasts: unraveling the link between chronic diseases and inflammation. <i>BMC Medicine</i> , 2012, 10, 122.	2.3	110
16	Oxidative Stress and Mitochondrial Dysfunction across Broad-Ranging Pathologies: Toward Mitochondria-Targeted Clinical Strategies. <i>Oxidative Medicine and Cellular Longevity</i> , 2014, 2014, 1-27.	1.9	108
17	Pharmacological Chaperones and Coenzyme Q10 Treatment Improves Mutant Î2-Glucocerebrosidase Activity and Mitochondrial Function in Neuronopathic Forms of Gaucher Disease. <i>Scientific Reports</i> , 2015, 5, 10903.	1.6	107
18	Strawberry consumption improves aging-associated impairments, mitochondrial biogenesis and functionality through the AMP-activated protein kinase signaling cascade. <i>Food Chemistry</i> , 2017, 234, 464-471.	4.2	98

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19	Mitochondrial dysfunction promoted by Porphyromonas gingivalis lipopolysaccharide as a possible link between cardiovascular disease and periodontitis. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1336-1343.	1.3	96
20	AMPK Phosphorylation Modulates Pain by Activation of NLRP3 Inflammasome. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 157-170.	2.5	85
21	Induction of NLRP3 Inflammasome Activation by Heme in Human Endothelial Cells. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-14.	1.9	82
22	Could Mitochondrial Dysfunction Be a Differentiating Marker Between Chronic Fatigue Syndrome and Fibromyalgia?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1855-1860.	2.5	81
23	Oxidative Stress Correlates with Headache Symptoms in Fibromyalgia: Coenzyme Q10 Effect on Clinical Improvement. <i>PLoS ONE</i> , 2012, 7, e35677.	1.1	80
24	NLRP3 Inflammasome Is Activated in Fibromyalgia: The Effect of Coenzyme Q ₁₀ . <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1169-1180.	2.5	75
25	Lipid Accumulation in HepG2 Cells Is Attenuated by Strawberry Extract through AMPK Activation. <i>Nutrients</i> , 2017, 9, 621.	1.7	74
26	Inhibition of the NLRP3 inflammasome prevents ovarian aging. <i>Science Advances</i> , 2021, 7, .	4.7	74
27	NLRP3 Inflammasome: A New Target in Major Depressive Disorder. <i>CNS Neuroscience and Therapeutics</i> , 2014, 20, 294-295.	1.9	69
28	Can Coenzyme Q ₁₀ Improve Clinical and Molecular Parameters in Fibromyalgia?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1356-1361.	2.5	66
29	Analysis of Coenzyme Q10 in muscle and fibroblasts for the diagnosis of CoQ10 deficiency syndromes. <i>Clinical Biochemistry</i> , 2008, 41, 697-700.	0.8	65
30	Does Oral Coenzyme Q ₁₀ Plus NADH Supplementation Improve Fatigue and Biochemical Parameters in Chronic Fatigue Syndrome?. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 679-685.	2.5	64
31	Adenosine Monophosphate (AMP)-Activated Protein Kinase: A New Target for Nutraceutical Compounds. <i>International Journal of Molecular Sciences</i> , 2017, 18, 288.	1.8	64
32	Is Inflammation a Mitochondrial Dysfunction-Dependent Event in Fibromyalgia?. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 800-807.	2.5	63
33	Coenzyme Q10 distribution in blood is altered in patients with Fibromyalgia. <i>Clinical Biochemistry</i> , 2009, 42, 732-735.	0.8	60
34	Oxidative stress, mitochondrial dysfunction and, inflammation common events in skin of patients with Fibromyalgia. <i>Mitochondrion</i> , 2015, 21, 69-75.	1.6	53
35	NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction. <i>Oncotarget</i> , 2017, 8, 99740-99756.	0.8	53
36	Lipophilic antioxidants prevent lipopolysaccharide-induced mitochondrial dysfunction through mitochondrial biogenesis improvement. <i>Pharmacological Research</i> , 2015, 91, 1-8.	3.1	49

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37	Cardiovascular diseases, NLRP3 inflammasome, and western dietary patterns. <i>Pharmacological Research</i> , 2018, 131, 44-50.	3.1	48
38	Diets Based on Virgin Olive Oil or Fish Oil but Not on Sunflower Oil Prevent Age-Related Alveolar Bone Resorption by Mitochondrial-Related Mechanisms. <i>PLoS ONE</i> , 2013, 8, e74234.	1.1	48
39	Oral treatment with amitriptyline induces coenzyme Q deficiency and oxidative stress in psychiatric patients. <i>Journal of Psychiatric Research</i> , 2012, 46, 341-345.	1.5	45
40	Integrated molecular signaling involving mitochondrial dysfunction and alteration of cell metabolism induced by tyrosine kinase inhibitors in cancer. <i>Redox Biology</i> , 2020, 36, 101510.	3.9	45
41	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, 1195-1208.	2.2	44
42	Recovery of MERRF Fibroblasts and Cybrids Pathophysiology by Coenzyme Q10. <i>Neurotherapeutics</i> , 2012, 9, 446-463.	2.1	43
43	Critical role of AMP-activated protein kinase in the balance between mitophagy and mitochondrial biogenesis in MELAS disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 2535-2553.	1.8	42
44	Acute oxidant damage promoted on cancer cells by amitriptyline in comparison with some common chemotherapeutic drugs. <i>Anti-Cancer Drugs</i> , 2010, 21, 932-944.	0.7	40
45	Oral coenzyme Q10 supplementation improves clinical symptoms and recovers pathologic alterations in blood mononuclear cells in a fibromyalgia patient. <i>Nutrition</i> , 2012, 28, 1200-1203.	1.1	40
46	Coenzyme Q10: A novel therapeutic approach for Fibromyalgia? Case series with 5 patients. <i>Mitochondrion</i> , 2011, 11, 623-625.	1.6	38
47	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, 1311-1328.	2.7	38
48	Gain of function mutation and inflammasome driven diseases in human and mouse models. <i>Journal of Autoimmunity</i> , 2018, 91, 13-22.	3.0	38
49	Could NLRP3 "Inflammasome Be a Cardiovascular Risk Biomarker in Acute Myocardial Infarction Patients?. <i>Antioxidants and Redox Signaling</i> , 2017, 27, 269-275.	2.5	36
50	Coenzyme Q10 and alpha-tocopherol protect against amitriptyline toxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 235, 329-337.	1.3	34
51	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.	1.1	34
52	Metformin and caloric restriction induce an AMPK-dependent restoration of mitochondrial dysfunction in fibroblasts from Fibromyalgia patients. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1257-1267.	1.8	33
53	The inflammasome: an emerging therapeutic oncotarget for cancer prevention. <i>Oncotarget</i> , 2016, 7, 50766-50780.	0.8	33
54	Oxidized hemoglobin forms contribute to NLRP3 inflammasome-driven IL-1 β production upon intravascular hemolysis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 464-475.	1.8	33

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55	NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPAR α Activity. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 1457-1464.	1.7	33
56	Targeting autophagy and mitophagy for mitochondrial diseases treatment. <i>Expert Opinion on Therapeutic Targets</i> , 2016, 20, 487-500.	1.5	31
57	Clinical symptoms in fibromyalgia are associated to overweight and lipid profile. <i>Rheumatology International</i> , 2014, 34, 419-422.	1.5	30
58	Molecular inflammation and oxidative stress are shared mechanisms involved in both myocardial infarction and periodontitis. <i>Journal of Periodontal Research</i> , 2020, 55, 519-528.	1.4	29
59	Oxidative stress and mitochondrial dysfunction in fibromyalgia. <i>Neuroendocrinology Letters</i> , 2010, 31, 169-73.	0.2	29
60	Mutation in cytochrome b gene of mitochondrial DNA in a family with fibromyalgia is associated with NLRP3-inflammasome activation. <i>Journal of Medical Genetics</i> , 2016, 53, 113-122.	1.5	26
61	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, 404-424.	2.2	24
62	Autophagic dysfunction in patients with Papillon-Lefevre syndrome is restored by recombinant cathepsin C treatment. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1131-1143.e7.	1.5	24
63	Amitriptyline induces mitophagy that precedes apoptosis in human HepG2 cells. <i>Genes and Cancer</i> , 2016, 7, 260-277.	0.6	23
64	Coenzyme Q10 Regulates Serotonin Levels and Depressive Symptoms in Fibromyalgia Patients. <i>Journal of Clinical Psychopharmacology</i> , 2014, 34, 277-278.	0.7	21
65	Coenzyme Q Protects Against Age-Related Alveolar Bone Loss Associated to n-6 Polyunsaturated Fatty Acid Rich-Diets by Modulating Mitochondrial Mechanisms. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 593-600.	1.7	21
66	The Absence of NLRP3-inflammasome Modulates Hepatic Fibrosis Progression, Lipid Metabolism, and Inflammation in KO NLRP3 Mice during Aging. <i>Cells</i> , 2020, 9, 2148.	1.8	21
67	Cytotoxic effects of amitriptyline in human fibroblasts. <i>Toxicology</i> , 2008, 243, 51-58.	2.0	20
68	Current Experience in Testing Mitochondrial Nutrients in Disorders Featuring Oxidative Stress and Mitochondrial Dysfunction: Rational Design of Chemoprevention Trials. <i>International Journal of Molecular Sciences</i> , 2014, 15, 20169-20208.	1.8	20
69	Intracellular cholesterol accumulation and coenzyme Q10 deficiency in Familial Hypercholesterolemia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3697-3713.	1.8	20
70	Mitochondrial dysfunction in skin biopsies and blood mononuclear cells from two cases of fibromyalgia patients. <i>Clinical Biochemistry</i> , 2010, 43, 1174-1176.	0.8	19
71	Blockade of the NLRP3 inflammasome improves metabolic health and lifespan in obese mice. <i>GeroScience</i> , 2020, 42, 715-725.	2.1	19
72	Stress-Induced NLRP3 Inflammasome in Human Diseases. <i>Advances in Protein Chemistry and Structural Biology</i> , 2017, 108, 127-162.	1.0	18

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73	Inhibition of the NLRP3 inflammasome improves lifespan in animal murine model of Hutchinsonâ€™Gilford Progeria. <i>EMBO Molecular Medicine</i> , 2021, 13, e14012.	3.3	17
74	Amitriptyline induces coenzyme Q deficiency and oxidative damage in mouse lung and liver. <i>Toxicology Letters</i> , 2011, 204, 32-37.	0.4	16
75	Effect of coenzyme Q10 evaluated by 1990 and 2010 ACR Diagnostic Criteria for Fibromyalgia and SCL-90-R: Four case reports and literature review. <i>Nutrition</i> , 2013, 29, 1422-1425.	1.1	16
76	Sequential Changes of NLRP3 Inflammasome Activation in Sepsis and its Relationship With Death. <i>Shock</i> , 2020, 54, 294-300.	1.0	16
77	Mitochondrial Adaptations in the Growing Heart. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 308-319.	3.1	16
78	Emerging roles of apoptotic microtubules during the execution phase of apoptosis. <i>Cytoskeleton</i> , 2015, 72, 435-446.	1.0	15
79	NLRP3 inflammasome: common nexus between depression and cardiovascular diseases. <i>Nature Reviews Cardiology</i> , 2017, 14, 124-124.	6.1	15
80	Gene Expression Profile in Major Depressive Disorder Shows Reduced Mitochondrial Biogenesis. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 636-638.	1.9	10
81	Two coffins and a funeral: early or late caspase activation determines two types of apoptosis induced by DNA damaging agents. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 421-436.	2.2	9
82	Ageing and the Inflammasomes. <i>Experientia Supplementum</i> (2012), 2018, 108, 303-320.	0.5	9
83	Serum activities of adenosine deaminase, dipeptidyl peptidase IV and prolyl endopeptidase in patients with fibromyalgia: diagnostic implications. <i>Clinical Rheumatology</i> , 2016, 35, 2565-2571.	1.0	8
84	A Diet Rich in Saturated Fat and Cholesterol Aggravates the Effect of Bacterial Lipopolysaccharide on Alveolar Bone Loss in a Rabbit Model of Periodontal Disease. <i>Nutrients</i> , 2020, 12, 1405.	1.7	8
85	Coenzyme Q10 in salivary cells correlate with blood cells in Fibromyalgia: Improvement in clinical and biochemical parameter after oral treatment. <i>Clinical Biochemistry</i> , 2012, 45, 509-511.	0.8	7
86	Apoptotic cells subjected to cold/warming exposure disorganize apoptotic microtubule network and undergo secondary necrosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 1364-1377.	2.2	7
87	Oxidative Stress in Fibromyalgia: Pathophysiology and Clinical Implications. <i>ReumatologÃa ClÃnica (English Edition)</i> , 2011, 7, 281-283.	0.2	5
88	The Effect of Coenzyme Q10 on Symptoms of Mother and Son with Fibromyalgia Syndrome. <i>Journal of Musculoskeletal Pain</i> , 2011, 19, 118-119.	0.3	5
89	Body fat and metabolic age as indicators of inflammation and cardiovascular risk. <i>European Journal of Preventive Cardiology</i> , 2018, 25, 233-234.	0.8	5
90	Is AMP-Activated Protein Kinase Associated to the Metabolic Changes in Primary Ovarian Insufficiency?. <i>Antioxidants and Redox Signaling</i> , 2020, 33, 1115-1121.	2.5	4

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91	Potential Role of the Mitochondria for the Dermatological Treatment of Papillon-Lefèvre. Antioxidants, 2021, 10, 95.	2.2	4
92	Inflammasomes in Clinical Practice: A Brief Introduction. Experientia Supplementum (2012), 2018, 108, 1-8.	0.5	3
93	Aging-Related Changes in Inflammatory and LKB1/AMPK Gene Expression in Fibromyalgia Patients. CNS Neuroscience and Therapeutics, 2014, 20, 476-478.	1.9	2
94	The inflammasome in fibromyalgia and CRPS: a microglial hypothesis?. Nature Reviews Rheumatology, 2015, 11, 630-630.	3.5	2
95	L-Arginine Ameliorates Defective Autophagy in GM2 Gangliosidosis by mTOR Modulation. Cells, 2021, 10, 3122.	1.8	2
96	The Apoptotic Microtubule Network During the Execution Phase of Apoptosis. , 0, , .		1
97	Editorial (Thematic Issue: AMPK: New Frontiers in Human Diseases). Current Drug Targets, 2016, 17, 852-852.	1.0	1
98	Editorial: Inflammasome Complex in Health and Disease: New Pharmacological Perspectives. Current Drug Targets, 2017, 18, 996.	1.0	1
99	Utility of Periodontal exploration in patients with Fibromyalgia. Journal of Clinical and Experimental Dentistry, 2012, 4, e40-e42.	0.5	1
100	Inflamm-aging or inflammasome-aging as independent events. Aging, 2020, 12, 17759-17760.	1.4	1
101	Mitophagy Plays a Protective Role in Fibroblasts from Patients with Coenzyme Q10 Deficiency. , 2014, , 131-144.		0
102	The Role of Autophagy and Mitophagy in Mitochondrial Diseases. , 2016, , 155-172.		0