# Mario D Cordero

List of Publications by Year
in descending order



| 102 | 10,057 | 76326 | 36028 |
|---|---|---|---|
| papers | citations | 40 | 97 |
| | | h-index | g-index |

| 108 | 108 | 108 | 20324 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Potential Role of the Mitochondria for the Dermatological Treatment of Papillon-LefÃ¨vre. Antioxidants, 2021, 10, 95. | 5.1 | 4 |
| 2 | Inhibition of the NLRP3 inflammasome prevents ovarian aging. Science Advances, 2021, 7, . | 10.3 | 74 |
| 3 | Inhibition of the NLRP3 inflammasome improves lifespan in animal murine model of Hutchinsonâ€“Gilford Progeria. EMBO Molecular Medicine, 2021, 13, e14012. | 6.9 | 17 |
| 4 | L-Arginine Ameliorates Defective Autophagy in GM2 Gangliosidoses by mTOR Modulation. Cells, 2021, 10, 3122. | 4.1 | 2 |
| 5 | NLRP3 inflammasome suppression improves longevity and prevents cardiac aging in male mice. Aging Cell, 2020, 19, e13050. | 6.7 | 111 |
| 6 | NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPARÎ± Activity. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1457-1464. | 3.6 | 33 |
| 7 | The Absence of NLRP3-inflammasome Modulates Hepatic Fibrosis Progression, Lipid Metabolism, and Inflammation in KO NLRP3 Mice during Aging. Cells, 2020, 9, 2148. | 4.1 | 21 |
| 8 | Sequential Changes of NLRP3 Inflammasome Activation in Sepsis and its Relationship With Death. Shock, 2020, 54, 294-300. | 2.1 | 16 |
| 9 | A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. Cell, 2020, 183, 94-109.e23. | 28.9 | 360 |
| 10 | 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. Nutrients, 2020, 12, 1405. | 4.1 | 8 |
| 11 | Integrated molecular signaling involving mitochondrial dysfunction and alteration of cell metabolism induced by tyrosine kinase inhibitors in cancer. Redox Biology, 2020, 36, 101510. | 9.0 | 45 |
| 12 | Is AMP-Activated Protein Kinase Associated to the Metabolic Changes in Primary Ovarian Insufficiency?. Antioxidants and Redox Signaling, 2020, 33, 1115-1121. | 5.4 | 4 |
| 13 | Molecular inflammation and oxidative stress are shared mechanisms involved in both myocardial infarction and periodontitis. Journal of Periodontal Research, 2020, 55, 519-528. | 2.7 | 29 |
| 14 | Blockade of the NLRP3 inflammasome improves metabolic health and lifespan in obese mice. GeroScience, 2020, 42, 715-725. | 4.6 | 19 |
| 15 | Mitochondrial Adaptations in the Growing Heart. Trends in Endocrinology and Metabolism, 2020, 31, 308-319. | 7.1 | 16 |
| 16 | Inflamm-ageing or inflammasom-ageing as independent events. Aging, 2020, 12, 17759-17760. | 3.1 | 1 |
| 17 | Oxidized hemoglobin forms contribute to NLRP3 inflammasome-driven IL-1Î² production upon intravascular hemolysis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 464-475. | 3.8 | 33 |
| 18 | Gain of function mutation and inflammasome driven diseases in human and mouse models. Journal of Autoimmunity, 2018, 91, 13-22. | 6.5 | 38 |

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|---|---|---|---|
| 19 | Cardiovascular diseases, NLRP3 inflammasome, and western dietary patterns. Pharmacological Research, 2018, 131, 44-50. | 7.1 | 48 |
| 20 | Autophagic dysfunction in patients with Papillon-LefÃ¨vre syndrome is restored by recombinant cathepsin C treatment. Journal of Allergy and Clinical Immunology, 2018, 142, 1131-1143.e7. | 2.9 | 24 |
| 21 | Body fat and metabolic age as indicators of inflammation and cardiovascular risk. European Journal of Preventive Cardiology, 2018, 25, 233-234. | 1.8 | 5 |
| 22 | AMP-Activated Protein Kinase Regulation of the NLRP3 Inflammasome during Aging. Trends in Endocrinology and Metabolism, 2018, 29, 8-17. | 7.1 | 111 |
| 23 | Intracellular cholesterol accumulation and coenzyme Q10 deficiency in Familial Hypercholesterolemia. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3697-3713. | 3.8 | 20 |
| 24 | Aging and the Inflammasomes. Experientia Supplementum (2012), 2018, 108, 303-320. | 0.9 | 9 |
| 25 | Inflammasomes in Clinical Practice: A Brief Introduction. Experientia Supplementum (2012), 2018, 108, 1-8. | 0.9 | 3 |
| 26 | Induction of NLRP3 Inflammasome Activation by Heme in Human Endothelial Cells. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-14. | 4.0 | 82 |
| 27 | NLRP3 inflammasome: common nexus between depression and cardiovascular diseases. Nature Reviews Cardiology, 2017, 14, 124-124. | 13.7 | 15 |
| 28 | Strawberry consumption improves aging-associated impairments, mitochondrial biogenesis and functionality through the AMP-activated protein kinase signaling cascade. Food Chemistry, 2017, 234, 464-471. | 8.2 | 98 |
| 29 | Antidepressants induce autophagy dependent-NLRP3-inflammasome inhibition in Major depressive disorder. Pharmacological Research, 2017, 121, 114-121. | 7.1 | 159 |
| 30 | Two coffins and a funeral: early or late caspase activation determines two types of apoptosis induced by DNA damaging agents. Apoptosis: an International Journal on Programmed Cell Death, 2017, 22, 421-436. | 4.9 | 9 |
| 31 | Could NLRP3â€“Inflammasome Be a Cardiovascular Risk Biomarker in Acute Myocardial Infarction Patients?. Antioxidants and Redox Signaling, 2017, 27, 269-275. | 5.4 | 36 |
| 32 | Stress-Induced NLRP3 Inflammasome in Human Diseases. Advances in Protein Chemistry and Structural Biology, 2017, 108, 127-162. | 2.3 | 18 |
| 33 | NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction. Oncotarget, 2017, 8, 99740-99756. | 1.8 | 53 |
| 34 | Adenosine Monophosphate (AMP)-Activated Protein Kinase: A New Target for Nutraceutical Compounds. International Journal of Molecular Sciences, 2017, 18, 288. | 4.1 | 64 |
| 35 | Lipid Accumulation in HepG2 Cells Is Attenuated by Strawberry Extract through AMPK Activation. Nutrients, 2017, 9, 621. | 4.1 | 74 |
| 36 | Editorial: Inflammasome Complex in Health and Disease: New Pharmacological Perspectives. Current Drug Targets, 2017, 18, 996. | 2.1 | 1 |

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|---|---|---|---|
| 37 | Editorial (Thematic Issue: AMPK: New Frontiers in Human Diseases). Current Drug Targets, 2016, 17, 852-852. | 2.1 | 1 |
| 38 | The Role of Autophagy and Mitophagy in Mitochondrial Diseases. , 2016, , 155-172. | | 0 |
| 39 | Amitriptyline induces mitophagy that precedes apoptosis in human HepG2 cells. Genes and Cancer, 2016, 7, 260-277. | 1.9 | 23 |
| 40 | The inflammasome: an emerging therapeutic oncotarget for cancer prevention. Oncotarget, 2016, 7, 50766-50780. | 1.8 | 33 |
| 41 | Gene Expression Profile in Major Depressive Disorder Shows Reduced Mitochondrial Biogenesis. CNS Neuroscience and Therapeutics, 2016, 22, 636-638. | 3.9 | 10 |
| 42 | Serum activities of adenosine deaminase, dipeptidyl peptidase IV and prolyl endopeptidase in patients with fibromyalgia: diagnostic implications. Clinical Rheumatology, 2016, 35, 2565-2571. | 2.2 | 8 |
| 43 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 44 | Mutation in cytochrome b gene of mitochondrial DNA in a family with fibromyalgia is associated with NLRP3-inflammasome activation. Journal of Medical Genetics, 2016, 53, 113-122. | 3.2 | 26 |
| 45 | Coenzyme Q Protects Against Age-Related Alveolar Bone Loss Associated to n-6 Polyunsaturated Fatty Acid Rich-Diets by Modulating Mitochondrial Mechanisms. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 593-600. | 3.6 | 21 |
| 46 | Targeting autophagy and mitophagy for mitochondrial diseases treatment. Expert Opinion on Therapeutic Targets, 2016, 20, 487-500. | 3.4 | 31 |
| 47 | Stress-Induced Depressive Behaviors Require a Functional NLRP3 Inflammasome. Molecular Neurobiology, 2016, 53, 4874-4882. | 4.0 | 134 |
| 48 | AMPK Phosphorylation Modulates Pain by Activation of NLRP3 Inflammasome. Antioxidants and Redox Signaling, 2016, 24, 157-170. | 5.4 | 85 |
| 49 | Pharmacological Chaperones and Coenzyme Q10 Treatment Improves Mutant Î²-Glucocerebrosidase Activity and Mitochondrial Function in Neuronopathic Forms of Gaucher Disease. Scientific Reports, 2015, 5, 10903. | 3.3 | 107 |
| 50 | Emerging roles of apoptotic microtubules during the execution phase of apoptosis. Cytoskeleton, 2015, 72, 435-446. | 2.0 | 15 |
| 51 | Oxidative stress, mitochondrial dysfunction and, inflammation common events in skin of patients with Fibromyalgia. Mitochondrion, 2015, 21, 69-75. | 3.4 | 53 |
| 52 | Metformin and caloric restriction induce an AMPK-dependent restoration of mitochondrial dysfunction in fibroblasts from Fibromyalgia patients. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1257-1267. | 3.8 | 33 |
| 53 | The inflammasome in fibromyalgia and CRPS: a microglial hypothesis?. Nature Reviews Rheumatology, 2015, 11, 630-630. | 8.0 | 2 |
| 54 | Critical role of AMP-activated protein kinase in the balance between mitophagy and mitochondrial biogenesis in MELAS disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 2535-2553. | 3.8 | 42 |

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|---|---|---|---|
| 55 | Does Oral Coenzyme Q<sub>10</sub> Plus NADH Supplementation Improve Fatigue and Biochemical Parameters in Chronic Fatigue Syndrome?. Antioxidants and Redox Signaling, 2015, 22, 679-685. | 5.4 | 64 |
| 56 | Lipophilic antioxidants prevent lipopolysaccharide-induced mitochondrial dysfunction through mitochondrial biogenesis improvement. Pharmacological Research, 2015, 91, 1-8. | 7.1 | 49 |
| 57 | Oxidative Stress and Mitochondrial Dysfunction across Broad-Ranging Pathologies: Toward Mitochondria-Targeted Clinical Strategies. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-27. | 4.0 | 108 |
| 58 | Clinical applications of coenzyme Qâ‚€. Frontiers in Bioscience - Landmark, 2014, 19, 619. | 3.0 | 116 |
| 59 | NLRP3 Inflammasome Is Activated in Fibromyalgia: The Effect of Coenzyme Q<sub>10</sub>. Antioxidants and Redox Signaling, 2014, 20, 1169-1180. | 5.4 | 75 |
| 60 | Current Experience in Testing Mitochondrial Nutrients in Disorders Featuring Oxidative Stress and Mitochondrial Dysfunction: Rational Design of Chemoprevention Trials. International Journal of Molecular Sciences, 2014, 15, 20169-20208. | 4.1 | 20 |
| 61 | Coenzyme Q<sub>10</sub> Therapy. Molecular Syndromology, 2014, 5, 187-197. | 0.8 | 118 |
| 62 | Aging-Related Changes in Inflammatory and LKB1/AMPK Gene Expression in Fibromyalgia Patients. CNS Neuroscience and Therapeutics, 2014, 20, 476-478. | 3.9 | 2 |
| 63 | Mitophagy Plays a Protective Role in Fibroblasts from Patients with Coenzyme Q10 Deficiency. , 2014, , 131-144. | | 0 |
| 64 | Clinical symptoms in fibromyalgia are associated to overweight and lipid profile. Rheumatology International, 2014, 34, 419-422. | 3.0 | 30 |
| 65 | One-month strawberry-rich anthocyanin supplementation ameliorates cardiovascular risk, oxidative stress markers and platelet activation in humans. Journal of Nutritional Biochemistry, 2014, 25, 289-294. | 4.2 | 286 |
| 66 | NLRP3 inflammasome is activated in mononuclear blood cells from patients with major depressive disorder. Brain, Behavior, and Immunity, 2014, 36, 111-117. | 4.1 | 343 |
| 67 | Apoptotic cells subjected to cold/warming exposure disorganize apoptotic microtubule network and undergo secondary necrosis. Apoptosis: an International Journal on Programmed Cell Death, 2014, 19, 1364-1377. | 4.9 | 7 |
| 68 | <scp>NLRP</scp>3 Inflammasome: A New Target in Major Depressive Disorder. CNS Neuroscience and Therapeutics, 2014, 20, 294-295. | 3.9 | 69 |
| 69 | Coenzyme Q10 Regulates Serotonin Levels and Depressive Symptoms in Fibromyalgia Patients. Journal of Clinical Psychopharmacology, 2014, 34, 277-278. | 1.4 | 21 |
| 70 | Can Coenzyme Q<sub>10</sub> Improve Clinical and Molecular Parameters in Fibromyalgia?. Antioxidants and Redox Signaling, 2013, 19, 1356-1361. | 5.4 | 66 |
| 71 | Effect of coenzyme Q10 evaluated by 1990 and 2010 ACR Diagnostic Criteria for Fibromyalgia and SCL-90-R: Four case reports and literature review. Nutrition, 2013, 29, 1422-1425. | 2.4 | 16 |
| 72 | Is Inflammation a Mitochondrial Dysfunction-Dependent Event in Fibromyalgia?. Antioxidants and Redox Signaling, 2013, 18, 800-807. | 5.4 | 63 |

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|---|---|---|---|
| 73 | Could Mitochondrial Dysfunction Be a Differentiating Marker Between Chronic Fatigue Syndrome and Fibromyalgia?. Antioxidants and Redox Signaling, 2013, 19, 1855-1860. | 5.4 | 81 |
| 74 | Diets Based on Virgin Olive Oil or Fish Oil but Not on Sunflower Oil Prevent Age-Related Alveolar Bone Resorption by Mitochondrial-Related Mechanisms. PLoS ONE, 2013, 8, e74234. | 2.5 | 48 |
| 75 | Coenzyme Q10 in salivary cells correlate with blood cells in Fibromyalgia: Improvement in clinical and biochemical parameter after oral treatment. Clinical Biochemistry, 2012, 45, 509-511. | 1.9 | 7 |
| 76 | Autophagy in periodontitis patients and gingival fibroblasts: unraveling the link between chronic diseases and inflammation. BMC Medicine, 2012, 10, 122. | 5.5 | 110 |
| 77 | Screening of effective pharmacological treatments for MELAS syndrome using yeasts, fibroblasts and cybrid models of the disease. British Journal of Pharmacology, 2012, 167, 1311-1328. | 5.4 | 38 |
| 78 | Oral coenzyme Q10 supplementation improves clinical symptoms and recovers pathologic alterations in blood mononuclear cells in a fibromyalgia patient. Nutrition, 2012, 28, 1200-1203. | 2.4 | 40 |
| 79 | Recovery of MERRF Fibroblasts and Cybrids Pathophysiology by Coenzyme Q10. Neurotherapeutics, 2012, 9, 446-463. | 4.4 | 43 |
| 80 | Oral treatment with amitriptyline induces coenzyme Q deficiency and oxidative stress in psychiatric patients. Journal of Psychiatric Research, 2012, 46, 341-345. | 3.1 | 45 |
| 81 | Oxidative Stress Correlates with Headache Symptoms in Fibromyalgia: Coenzyme Q10 Effect on Clinical Improvement. PLoS ONE, 2012, 7, e35677. | 2.5 | 80 |
| 82 | Utility of Periodontal exploration in patients with Fibromyalgia. Journal of Clinical and Experimental Dentistry, 2012, 4, e40-e42. | 1.2 | 1 |
| 83 | Oxidative Stress in Fibromyalgia: Pathophysiology and Clinical Implications. ReumatologÃa ClÃnica (English Edition), 2011, 7, 281-283. | 0.3 | 5 |
| 84 | Coenzyme Q10: A novel therapeutic approach for Fibromyalgia? Case series with 5 patients. Mitochondrion, 2011, 11, 623-625. | 3.4 | 38 |
| 85 | Amitriptyline induces coenzyme Q deficiency and oxidative damage in mouse lung and liver. Toxicology Letters, 2011, 204, 32-37. | 0.8 | 16 |
| 86 | Mitochondrial dysfunction promoted by Porphyromonas gingivalis lipopolysaccharide as a possible link between cardiovascular disease and periodontitis. Free Radical Biology and Medicine, 2011, 50, 1336-1343. | 2.9 | 96 |
| 87 | Secondary coenzyme Q<sub>10</sub>deficiency triggers mitochondria degradation by mitophagy in MELAS fibroblasts. FASEB Journal, 2011, 25, 2669-2687. | 0.5 | 122 |
| 88 | Apoptotic microtubule network organization and maintenance depend on high cellular ATP levels and energized mitochondria. Apoptosis: an International Journal on Programmed Cell Death, 2011, 16, 404-424. | 4.9 | 24 |
| 89 | The Effect of Coenzyme Q10on Symptoms of Mother and Son with Fibromyalgia Syndrome. Journal of Musculoskeletal Pain, 2011, 19, 118-119. | 0.3 | 5 |
| 90 | Clinical Symptoms in Fibromyalgia Are Better Associated to Lipid Peroxidation Levels in Blood Mononuclear Cells Rather than in Plasma. PLoS ONE, 2011, 6, e26915. | 2.5 | 34 |

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|---|---|---|---|
| 91 | Acute oxidant damage promoted on cancer cells by amitriptyline in comparison with some common chemotherapeutic drugs. Anti-Cancer Drugs, 2010, 21, 932-944. | 1.4 | 40 |
| 92 | Mitochondrial dysfunction in skin biopsies and blood mononuclear cells from two cases of fibromyalgia patients. Clinical Biochemistry, 2010, 43, 1174-1176. | 1.9 | 19 |
| 93 | Mitochondrial dysfunction and mitophagy activation in blood mononuclear cells of fibromyalgia patients: implications in the pathogenesis of the disease. Arthritis Research and Therapy, 2010, 12, R17. | 3.5 | 120 |
| 94 | Oxidative stress and mitochondrial dysfunction in fibromyalgia. Neuroendocrinology Letters, 2010, 31, 169-73. | 0.2 | 29 |
| 95 | Coenzyme Q deficiency triggers mitochondria degradation by mitophagy. Autophagy, 2009, 5, 19-32. | 9.1 | 179 |
| 96 | Coenzyme Q10 and alpha-tocopherol protect against amitriptyline toxicity. Toxicology and Applied Pharmacology, 2009, 235, 329-337. | 2.8 | 34 |
| 97 | Coenzyme Q10 distribution in blood is altered in patients with Fibromyalgia. Clinical Biochemistry, 2009, 42, 732-735. | 1.9 | 60 |
| 98 | Analysis of Coenzyme Q10 in muscle and fibroblasts for the diagnosis of CoQ10 deficiency syndromes. Clinical Biochemistry, 2008, 41, 697-700. | 1.9 | 65 |
| 99 | Cytotoxic effects of amitriptyline in human fibroblasts. Toxicology, 2008, 243, 51-58. | 4.2 | 20 |
| 100 | Missense mutation of the COQ2 gene causes defects of bioenergetics and de novo pyrimidine synthesis. Human Molecular Genetics, 2007, 16, 1091-1097. | 2.9 | 129 |
| 101 | The apoptotic microtubule network preserves plasma membrane integrity during the execution phase of apoptosis. Apoptosis: an International Journal on Programmed Cell Death, 2007, 12, 1195-1208. | 4.9 | 44 |
| 102 | The Apoptotic Microtubule Network During the Execution Phase of Apoptosis. , 0, , . | | 1 |