

Luis C LÃ³pez

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

8,521
citations

31976

53
h-index

45317

90
g-index

104
all docs

104
docs citations

104
times ranked

8827
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Exposure to non-persistent pesticides, BDNF, and behavioral function in adolescent males: Exploring a novel effect biomarker approach. <i>Environmental Research</i> , 2022, 211, 113115. | 7.5 | 8 |
| 2 | The Q-junction and the inflammatory response are critical pathological and therapeutic factors in CoQ deficiency. <i>Redox Biology</i> , 2022, 55, 102403. | 9.0 | 2 |
| 3 | Abnormalities of hydrogen sulfide and glutathione pathways in mitochondrial dysfunction. <i>Journal of Advanced Research</i> , 2021, 27, 79-84. | 9.5 | 11 |
| 4 | Metabolic Targets of Coenzyme Q10 in Mitochondria. <i>Antioxidants</i> , 2021, 10, 520. | 5.1 | 37 |
| 5 | Î²-RA Targets Mitochondrial Metabolism and Adipogenesis, Leading to Therapeutic Benefits against CoQ Deficiency and Age-Related Overweight. <i>Biomedicines</i> , 2021, 9, 1457. | 3.2 | 8 |
| 6 | Animal Models of Coenzyme Q Deficiency: Mechanistic and Translational Learnings. <i>Antioxidants</i> , 2021, 10, 1687. | 5.1 | 6 |
| 7 | Coenzyme Q10 modulates sulfide metabolism and links the mitochondrial respiratory chain to pathways associated to one carbon metabolism. <i>Human Molecular Genetics</i> , 2020, 29, 3296-3311. | 2.9 | 16 |
| 8 | Composition and Antioxidant Properties of Spanish Extra Virgin Olive Oil Regarding Cultivar, Harvest Year and Crop Stage. <i>Antioxidants</i> , 2019, 8, 217. | 5.1 | 23 |
| 9 | The Paradox of Coenzyme Q10 in Aging. <i>Nutrients</i> , 2019, 11, 2221. | 4.1 | 50 |
| 10 | Hydroxytyrosol influences exercise-induced mitochondrial respiratory complex assembly into supercomplexes in rats. <i>Free Radical Biology and Medicine</i> , 2019, 134, 304-310. | 2.9 | 14 |
| 11 | Coenzyme Q10 Deficiency. , 2019, , 169-182. | | 0 |
| 12 | Rapamycin administration is not a valid therapeutic strategy for every case of mitochondrial disease. <i>EBioMedicine</i> , 2019, 42, 511-523. | 6.1 | 29 |
| 13 | Lack of NLRP3 Inflammasome Activation Reduces Age-Dependent Sarcopenia and Mitochondrial Dysfunction, Favoring the Prophylactic Effect of Melatonin. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 1699-1708. | 3.6 | 38 |
| 14 | Melatonin Enhances Cisplatin and Radiation Cytotoxicity in Head and Neck Squamous Cell Carcinoma by Stimulating Mitochondrial ROS Generation, Apoptosis, and Autophagy. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-12. | 4.0 | 65 |
| 15 | Î²-RA reduces DMQ/CoQ ratio and rescues the encephalopathic phenotype in Coq9 ^{R239X} mice. <i>EMBO Molecular Medicine</i> , 2019, 11, . | 6.9 | 27 |
| 16 | Combination of melatonin and rapamycin for head and neck cancer therapy: Suppression of AKT/mTOR pathway activation, and activation of mitophagy and apoptosis via mitochondrial function regulation. <i>Journal of Pineal Research</i> , 2018, 64, e12461. | 7.4 | 131 |
| 17 | The Protective Effect of Melatonin Against Age-Associated, Sarcopenia-Dependent Tubular Aggregate Formation, Lactate Depletion, and Mitochondrial Changes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2018, 73, 1330-1338. | 3.6 | 28 |
| 18 | Bypassing human CoQ 10 deficiency. <i>Molecular Genetics and Metabolism</i> , 2018, 123, 289-291. | 1.1 | 15 |

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|----|---|-----|-----------|
| 19 | <i>In Vivo</i> Determination of Mitochondrial Respiration in 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Treated Zebrafish Reveals the Efficacy of Melatonin in Restoring Mitochondrial Normalcy. <i>Zebrafish</i> , 2018, 15, 15-26. | 1.1 | 14 |
| 20 | Reduction in the levels of CoQ biosynthetic proteins is related to an increase in lifespan without evidence of hepatic mitohormesis. <i>Scientific Reports</i> , 2018, 8, 14013. | 3.3 | 9 |
| 21 | CoQ10 supplementation rescues nephrotic syndrome through normalization of H2S oxidation pathway. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3708-3722. | 3.8 | 35 |
| 22 | Melatonin enhances neural stem cell differentiation and engraftment by increasing mitochondrial function. <i>Journal of Pineal Research</i> , 2017, 63, e12415. | 7.4 | 78 |
| 23 | Detection of 6-demethoxyubiquinone in CoQ10 deficiency disorders: Insights into enzyme interactions and identification of potential therapeutics. <i>Molecular Genetics and Metabolism</i> , 2017, 121, 216-223. | 1.1 | 25 |
| 24 | Melatonin administration to wild-type mice and nontreated NLRP3 mutant mice share similar inhibition of the inflammatory response during sepsis. <i>Journal of Pineal Research</i> , 2017, 63, e12410. | 7.4 | 88 |
| 25 | Acute and chronic mitochondrial respiratory chain deficiency differentially regulate lysosomal biogenesis. <i>Scientific Reports</i> , 2017, 7, 45076. | 3.3 | 74 |
| 26 | CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. <i>EMBO Molecular Medicine</i> , 2017, 9, 78-95. | 6.9 | 59 |
| 27 | Comparative analysis of minor bioactive constituents (CoQ10, tocopherols and phenolic compounds) in Arbequina extra virgin olive oils from Brazil and Spain. <i>Journal of Food Composition and Analysis</i> , 2017, 63, 47-54. | 3.9 | 29 |
| 28 | Antioxidant effect of exercise: Exploring the role of the mitochondrial complex I superassembly. <i>Redox Biology</i> , 2017, 13, 477-481. | 9.0 | 46 |
| 29 | Melatonin, clock genes and mitochondria in sepsis. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3965-3987. | 5.4 | 84 |
| 30 | The Role of Sulfide Oxidation Impairment in the Pathogenesis of Primary CoQ Deficiency. <i>Frontiers in Physiology</i> , 2017, 8, 525. | 2.8 | 41 |
| 31 | Melatonin protects rats from radiotherapy-induced small intestine toxicity. <i>PLoS ONE</i> , 2017, 12, e0174474. | 2.5 | 86 |
| 32 | Mitochondrial impairment and melatonin protection in parkinsonian mice do not depend of inducible or neuronal nitric oxide synthases. <i>PLoS ONE</i> , 2017, 12, e0183090. | 2.5 | 34 |
| 33 | Same molecule but different expression: aging and sepsis trigger NLRP3 inflammasome activation, a target of melatonin. <i>Journal of Pineal Research</i> , 2016, 60, 193-205. | 7.4 | 125 |
| 34 | Permeabilized myocardial fibers as model to detect mitochondrial dysfunction during sepsis and melatonin effects without disruption of mitochondrial network. <i>Mitochondrion</i> , 2016, 27, 56-63. | 3.4 | 31 |
| 35 | Identification of morphological markers of sarcopenia at early stage of aging in skeletal muscle of mice. <i>Experimental Gerontology</i> , 2016, 83, 22-30. | 2.8 | 55 |
| 36 | Preliminary evidence suggesting that nonmetallic and metallic nanoparticle devices protect against the effects of environmental electromagnetic radiation by reducing oxidative stress and inflammatory status. <i>European Journal of Integrative Medicine</i> , 2016, 8, 835-840. | 1.7 | 3 |

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|----|---|-----|-----------|
| 37 | Melatonin rescues zebrafish embryos from the parkinsonian phenotype restoring the parkin/PINK1/DJ-1/MUL1 network. <i>Journal of Pineal Research</i> , 2016, 61, 96-107. | 7.4 | 64 |
| 38 | Gene Therapy Corrects Mitochondrial Dysfunction in Hematopoietic Progenitor Cells and Fibroblasts from Coq9R239X Mice. <i>PLoS ONE</i> , 2016, 11, e0158344. | 2.5 | 2 |
| 39 | The clinical heterogeneity of coenzyme Q ₁₀ deficiency results from genotypic differences in the <i>Coq9</i> gene. <i>EMBO Molecular Medicine</i> , 2015, 7, 670-687. | 6.9 | 77 |
| 40 | Disruption of the NF- κ B/NLRP3 connection by melatonin requires retinoid-related orphan receptor- α and blocks the septic response in mice. <i>FASEB Journal</i> , 2015, 29, 3863-3875. | 0.5 | 190 |
| 41 | Lack of aprataxin impairs mitochondrial functions via downregulation of the APE1/NRF1/NRF2 pathway. <i>Human Molecular Genetics</i> , 2015, 24, 4516-4529. | 2.9 | 23 |
| 42 | Protective effects of melatonin against oxidative damage induced by Egyptian cobra (<i>Naja haje</i>) crude venom in rats. <i>Acta Tropica</i> , 2015, 143, 58-65. | 2.0 | 27 |
| 43 | Identification of mitochondrial deficits and melatonin targets in liver of septic mice by high-resolution respirometry. <i>Life Sciences</i> , 2015, 121, 158-165. | 4.3 | 22 |
| 44 | Melatonin blunts the mitochondrial/NLRP3 connection and protects against radiation-induced oral mucositis. <i>Journal of Pineal Research</i> , 2015, 58, 34-49. | 7.4 | 118 |
| 45 | Mitochondrial COQ9 is a lipid-binding protein that associates with COQ7 to enable coenzyme Q biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4697-705. | 7.1 | 113 |
| 46 | Pathomechanisms in Coenzyme Q ₁₀ -Deficient Human Fibroblasts. <i>Molecular Syndromology</i> , 2014, 5, 163-169. | 0.8 | 23 |
| 47 | The beneficial effects of melatonin against heart mitochondrial impairment during sepsis: inhibition of iNOS and preservation of nNOS. <i>Journal of Pineal Research</i> , 2014, 56, 71-81. | 7.4 | 72 |
| 48 | Deoxypyrimidine monophosphate bypass therapy for thymidine kinase 2 deficiency. <i>EMBO Molecular Medicine</i> , 2014, 6, 1016-1027. | 6.9 | 79 |
| 49 | Extrapineal melatonin: sources, regulation, and potential functions. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 2997-3025. | 5.4 | 766 |
| 50 | Ubiquinol-10 ameliorates mitochondrial encephalopathy associated with CoQ deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 893-901. | 3.8 | 56 |
| 51 | A review of the melatonin functions in zebrafish physiology. <i>Journal of Pineal Research</i> , 2014, 57, 1-9. | 7.4 | 60 |
| 52 | Dysfunctional Coq9 protein causes predominant encephalomyopathy associated with CoQ deficiency. <i>Human Molecular Genetics</i> , 2013, 22, 1233-1248. | 2.9 | 87 |
| 53 | Analysis of the daily changes of melatonin receptors in the rat liver. <i>Journal of Pineal Research</i> , 2013, 54, 313-321. | 7.4 | 64 |
| 54 | Early gender differences in the redox status of the brain mitochondria with age: effects of melatonin therapy. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2013, 16, 91-100. | 0.7 | 18 |

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|----|--|-----|-----------|
| 55 | Cord blood-derived CD34+ hematopoietic cells with low mitochondrial mass are enriched in hematopoietic repopulating stem cell function. <i>Haematologica</i> , 2013, 98, 1022-1029. | 3.5 | 72 |
| 56 | Argan Oil-contained Antioxidants for Human Mitochondria. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800. | 0.5 | 10 |
| 57 | Argan oil-contained antioxidants for human mitochondria. <i>Natural Product Communications</i> , 2013, 8, 47-50. | 0.5 | 8 |
| 58 | Heterogeneity of Coenzyme Q ₁₀ Deficiency. <i>Archives of Neurology</i> , 2012, 69, 978-83. | 4.5 | 192 |
| 59 | Melatonin plus physical exercise are highly neuroprotective in the 3xTg-AD mouse. <i>Neurobiology of Aging</i> , 2012, 33, 1124.e13-1124.e29. | 3.1 | 86 |
| 60 | Assessment of Thymidine Phosphorylase Function: Measurement of Plasma Thymidine (and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf, 50 542 T | 0.9 | 14 |
| 61 | Melatonin protects lung mitochondria from aging. <i>Age</i> , 2012, 34, 681-692. | 3.0 | 41 |
| 62 | Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>Journal of Pineal Research</i> , 2012, 52, 217-227. | 7.4 | 484 |
| 63 | Mitochondrial DNA and inflammatory diseases. <i>Human Genetics</i> , 2012, 131, 161-173. | 3.8 | 86 |
| 64 | Determination of Coenzyme Q ₁₀ , Coenzyme Q ₉ , and Melatonin Contents in Virgin Argan Oils: Comparison with Other Edible Vegetable Oils. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 12102-12108. | 5.2 | 30 |
| 65 | Protective effects of synthetic kynurenines on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonism in mice. <i>Brain Research Bulletin</i> , 2011, 85, 133-140. | 3.0 | 18 |
| 66 | Synergism between melatonin and atorvastatin against endothelial cell damage induced by lipopolysaccharide. <i>Journal of Pineal Research</i> , 2011, 51, 324-330. | 7.4 | 30 |
| 67 | Melatonin treatment counteracts the hyperoxidative status in erythrocytes of patients suffering from Duchenne muscular dystrophy. <i>Clinical Biochemistry</i> , 2011, 44, 853-858. | 1.9 | 36 |
| 68 | Melatonin-mitochondria Interplay in Health and Disease. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 221-240. | 2.1 | 216 |
| 69 | The Role of Mitochondria in Brain Aging and the Effects of Melatonin. <i>Current Neuropharmacology</i> , 2010, 8, 182-193. | 2.9 | 52 |
| 70 | Pharmacological utility of melatonin in the treatment of septic shock: experimental and clinical evidence. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 58, 1153-1165. | 2.4 | 98 |
| 71 | Oxidative stress status, clinical outcome, and Î²â€globin gene cluster haplotypes in pediatric patients with sickle cell disease. <i>European Journal of Haematology</i> , 2010, 85, 529-537. | 2.2 | 43 |
| 72 | Melatonin treatment normalizes plasma proâ€inflammatory cytokines and nitrosative/oxidative stress in patients suffering from Duchenne muscular dystrophy. <i>Journal of Pineal Research</i> , 2010, 48, 282-289. | 7.4 | 130 |

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|----|--|-----|-----------|
| 73 | Treatment of CoQ10 Deficient Fibroblasts with Ubiquinone, CoQ Analogs, and Vitamin C: Time- and Compound-Dependent Effects. PLoS ONE, 2010, 5, e11897. | 2.5 | 92 |
| 74 | Reactive oxygen species, oxidative stress, and cell death correlate with level of CoQ ₁₀ deficiency. FASEB Journal, 2010, 24, 3733-3743. | 0.5 | 142 |
| 75 | Factors influencing inflammatory mediators' secretion after pediatric burn injury. Journal of Pediatric Biochemistry, 2010, 01, 277-278. | 0.2 | 0 |
| 76 | Unbalanced deoxynucleotide pools cause mitochondrial DNA instability in thymidine phosphorylase-deficient mice. Human Molecular Genetics, 2009, 18, 714-722. | 2.9 | 123 |
| 77 | Melatonin and its brain metabolite N¹-acetyl-5-methoxykynuramine prevent mitochondrial nitric oxide synthase induction in parkinsonian mice. Journal of Neuroscience Research, 2009, 87, 3002-3010. | 2.9 | 106 |
| 78 | Clinical and genetic analysis of lipid storage myopathies. Muscle and Nerve, 2009, 39, 333-342. | 2.2 | 74 |
| 79 | Melatonin protects the mitochondria from oxidative damage reducing oxygen consumption, membrane potential, and superoxide anion production. Journal of Pineal Research, 2009, 46, 188-198. | 7.4 | 228 |
| 80 | Long-term melatonin administration protects brain mitochondria from aging. Journal of Pineal Research, 2009, 47, 192-200. | 7.4 | 121 |
| 81 | A Nonsense Mutation in COQ9 Causes Autosomal-Recessive Neonatal-Onset Primary Coenzyme Q10 Deficiency: A Potentially Treatable Form of Mitochondrial Disease. American Journal of Human Genetics, 2009, 84, 558-566. | 6.2 | 206 |
| 82 | ETFDH mutations, CoQ10 levels, and respiratory chain activities in patients with riboflavin-responsive multiple acyl-CoA dehydrogenase deficiency. Neuromuscular Disorders, 2009, 19, 212-216. | 0.6 | 118 |
| 83 | Human CoQ₁₀ deficiencies. BioFactors, 2008, 32, 113-118. | 5.4 | 110 |
| 84 | ADCK3, an Ancestral Kinase, Is Mutated in a Form of Recessive Ataxia Associated with Coenzyme Q10 Deficiency. American Journal of Human Genetics, 2008, 82, 661-672. | 6.2 | 290 |
| 85 | Improved mitochondrial function and increased life span after chronic melatonin treatment in senescent prone mice. Experimental Gerontology, 2008, 43, 749-756. | 2.8 | 88 |
| 86 | Thymidine kinase 2 (H126N) knockin mice show the essential role of balanced deoxynucleotide pools for mitochondrial DNA maintenance. Human Molecular Genetics, 2008, 17, 2433-2440. | 2.9 | 101 |
| 87 | Respiratory chain dysfunction and oxidative stress correlate with severity of primary CoQ ₁₀ deficiency. FASEB Journal, 2008, 22, 1874-1885. | 0.5 | 150 |
| 88 | Chronic melatonin treatment prevents age-dependent cardiac mitochondrial dysfunction in senescence-accelerated mice. Free Radical Research, 2007, 41, 15-24. | 3.3 | 99 |
| 89 | Melatonin administration prevents cardiac and diaphragmatic mitochondrial oxidative damage in senescence-accelerated mice. Journal of Endocrinology, 2007, 194, 637-643. | 2.6 | 61 |
| 90 | Chronic melatonin treatment reduces the age-dependent inflammatory process in senescence-accelerated mice. Journal of Pineal Research, 2007, 42, 272-279. | 7.4 | 120 |

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|-----|--|-----|-----------|
| 91 | Cellular mechanisms involved in the melatonin inhibition of HT-29 human colon cancer cell proliferation in culture. <i>Journal of Pineal Research</i> , 2007, 43, 195-205. | 7.4 | 102 |
| 92 | Attenuation of cardiac mitochondrial dysfunction by melatonin in septic mice. <i>FEBS Journal</i> , 2007, 274, 2135-2147. | 4.7 | 127 |
| 93 | Thymidine and deoxyuridine accumulate in tissues of patients with mitochondrial neurogastrointestinal encephalomyopathy (MNGIE). <i>FEBS Letters</i> , 2007, 581, 3410-3414. | 2.8 | 64 |
| 94 | Melatonin role in the mitochondrial function. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 947. | 3.0 | 130 |
| 95 | Leigh Syndrome with Nephropathy and CoQ10 Deficiency Due to decaprenyl diphosphate synthase subunit 2 (PDSS2) Mutations. <i>American Journal of Human Genetics</i> , 2006, 79, 1125-1129. | 6.2 | 359 |
| 96 | Identification of an inducible nitric oxide synthase in diaphragm mitochondria from septic micelts relation with mitochondrial dysfunction and prevention by melatonin. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 267-278. | 2.8 | 101 |
| 97 | Inhibition of neuronal nitric oxide synthase activity by N ¹ -acetyl-5-methoxykynuramine, a brain metabolite of melatonin. <i>Journal of Neurochemistry</i> , 2006, 98, 2023-2033. | 3.9 | 141 |
| 98 | Melatonin counteracts inducible mitochondrial nitric oxide synthase-dependent mitochondrial dysfunction in skeletal muscle of septic mice. <i>Journal of Pineal Research</i> , 2006, 40, 71-78. | 7.4 | 129 |
| 99 | Age-dependent lipopolysaccharide-induced iNOS expression and multiorgan failure in rats: Effects of melatonin treatment. <i>Experimental Gerontology</i> , 2006, 41, 1165-1173. | 2.8 | 54 |
| 100 | Melatonin restores the mitochondrial production of ATP in septic mice. <i>Neuroendocrinology Letters</i> , 2006, 27, 623-30. | 0.2 | 39 |
| 101 | Melatonin and Nitric Oxide: Two Required Antagonists for Mitochondrial Homeostasis. <i>Endocrine</i> , 2005, 27, 159-168. | 2.2 | 53 |
| 102 | Mechanisms of N-methyl-d-Aspartate Receptor Inhibition by Melatonin In the Rat Striatum. <i>Journal of Neuroendocrinology</i> , 2004, 16, 929-935. | 2.6 | 59 |