

**PROGRAMA DE DOCTORADO EN BIOMEDICINA****LÍNEA DE INVESTIGACIÓN EN BIOTECNOLOGÍA****Publicaciones relevantes desde el año 2012****DARÍO ACUÑA CASTROVIEJO**

<b>Publicación</b>	<b>Posición de revista en el área</b>	<b>Total revistas en el área</b>
1: Figueiro-Silva J, Antequera D, Pascual C, de la Fuente Revenga M, Volt H, Acuña-Castroviejo D, Rodríguez-Franco MI, Carro E. The Melatonin Analog IQM316 May Induce Adult Hippocampal Neurogenesis and Preserve Recognition Memories in Mice. <i>Cell Transplant</i> . 2018 Mar;27(3):423-437. doi: 10.1177/0963689717721217. PubMed PMID: 29873251.	16	24
2: Sayed RKA, Fernández-Ortiz M, Diaz-Casado ME, Rusanova I, Rahim I, Escames G, López LC, Mokhtar DM, Acuña-Castroviejo D. The Protective Effect of Melatonin Against Age-Associated Sarcopenia-Dependent Tubular Aggregates Formation, Lactate Depletion and Mitochondrial Changes. <i>J Gerontol A Biol Sci Med Sci</i> . 2018 Mar 19. doi: 10.1093/gerona/gly059. [Epub ahead of print] PubMed PMID: 29562315.	3	49
3: Shen YQ, Guerra-Librero A, Fernandez-Gil BI, Florido J, García-López S, Martinez-Ruiz L, Mendivil-Perez M, Soto-Mercado V, Acuña-Castroviejo D, Ortega-Arellano H, Carriel V, Diaz-Casado ME, Reiter RJ, Rusanova I, Nieto A, López LC, Escames G. 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>J Pineal Res</i> . 2018 Apr;64(3). doi: 10.1111/jpi.12461. Epub 2018 Jan 9. PubMed PMID: 29247557.	3	84
4: Díaz-Casado ME, Rusanova I, Aranda P, Fernández-Ortiz M, Sayed RKA, Fernández-Gil BI, Hidalgo-Gutiérrez A, Escames G, López LC, Acuña-Castroviejo D. In Vivo 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 Feb;15(1):15-26. doi: 10.1089/zeb.2017.1479. Epub 2017 Nov 29. PubMed PMID: 29185873.	23	163
5: Ortiz-Franco M, Planells E, Quintero B, Acuña-Castroviejo D, Rusanova I, Escames G, Molina-López J. Effect of Melatonin Supplementation on Antioxidant Status and DNA Damage in High Intensity Trained Athletes. <i>Int J Sports Med</i> . 2017 Dec;38(14):1117-1125. doi: 10.1055/s-0043-119881. Epub 2017 Nov 17. PubMed PMID: 29165732.	25	81
6: Chahbouni M, López MDS, Molina-Carballo A, de Haro T, Muñoz-Hoyos A, Fernández-Ortiz M, Guerra-Librero A, Acuña-Castroviejo D. Melatonin Treatment Reduces Oxidative Damage and Normalizes Plasma Pro-Inflammatory Cytokines in Patients Suffering from Charcot-Marie-Tooth Neuropathy: A Pilot Study in Three Children. <i>Molecules</i> . 2017 Oct 14;22(10). pii: E1728. doi: 10.3390/molecules22101728. PubMed PMID: 29036910.	68	170

7: Sugden WW, Leonardo-Mendonça RC, Acuña-Castroviejo D, Siekmann AF. Genetic dissection of endothelial transcriptional activity of zebrafish aryl hydrocarbon receptors (AHRs). PLoS One. 2017 Aug 17;12(8):e0183433. doi: 10.1371/journal.pone.0183433. eCollection 2017. PubMed PMID: 28817646; PubMed Central PMCID: PMC5560736.	<b>15</b>	<b>64</b>
8: López A, Ortiz F, Doerrier C, Venegas C, Fernández-Ortiz M, Aranda P, Díaz-Casado ME, Fernández-Gil B, Barriocanal-Casado E, Escames G, López LC, Acuña-Castroviejo D. Mitochondrial impairment and melatonin protection in parkinsonian mice do not depend of inducible or neuronal nitric oxide synthases. PLoS One. 2017 Aug 11;12(8):e0183090. doi: 10.1371/journal.pone.0183090. eCollection 2017. PubMed PMID: 28800639; PubMed Central PMCID: PMC5553810.	<b>15</b>	<b>64</b>
9: Acuña-Castroviejo D, Rahim I, Acuña-Fernández C, Fernández-Ortiz M, Solera-Marín J, Sayed RKA, Díaz-Casado ME, Rusanova I, López LC, Escames G. Melatonin, clock genes and mitochondria in sepsis. Cell Mol Life Sci. 2017 Nov;74(21):3965-3987. doi: 10.1007/s00018-017-2610-1. Epub 2017 Aug 7. Review. PubMed PMID: 28785808.	<b>34</b>	<b>292</b>
10: Abdel Moneim AE, Guerra-Librero A, Florido J, Shen YQ, Fernández-Gil B, Acuña-Castroviejo D, Escames G. Oral Mucositis: Melatonin Gel an Effective New Treatment. Int J Mol Sci. 2017 May 7;18(5). pii: E1003. doi: 10.3390/ijms18051003. Review. PubMed PMID: 28481279; PubMed Central PMCID: PMC5454916.	<b>52</b>	<b>170</b>
11: Mendivil-Perez M, Soto-Mercado V, Guerra-Librero A, Fernandez-Gil BI, Florido J, Shen YQ, Tejada MA, Capilla-Gonzalez V, Rusanova I, Garcia-Verdugo JM, Acuña-Castroviejo D, López LC, Velez-Pardo C, Jimenez-Del-Rio M, Ferrer JM, Escames G. Melatonin enhances neural stem cell differentiation and engraftment by increasing mitochondrial function. J Pineal Res. 2017 Sep;63(2). doi: 10.1111/jpi.12415. Epub 2017 May 18. PubMed PMID: 28423196.	<b>3</b>	<b>84</b>
12: Reiter RJ, Rosales-Corral SA, Tan DX, Acuna-Castroviejo D, Qin L, Yang SF, Xu K. Melatonin, a Full Service Anti-Cancer Agent: Inhibition of Initiation, Progression and Metastasis. Int J Mol Sci. 2017 Apr 17;18(4). pii: E843. doi: 10.3390/ijms18040843. Review. PubMed PMID: 28420185; PubMed Central PMCID: PMC5412427.	<b>52</b>	<b>170</b>
13: Fernández-Gil B, Moneim AE, Ortiz F, Shen YQ, Soto-Mercado V, Mendivil-Perez M, Guerra-Librero A, Acuña-Castroviejo D, Molina-Navarro MM, García-Verdugo JM, Sayed RK, Florido J, Luna JD, López LC, Escames G. Melatonin protects rats from radiotherapy-induced small intestine toxicity. PLoS One. 2017 Apr 12;12(4):e0174474. doi: 10.1371/journal.pone.0174474. eCollection 2017. PubMed PMID: 28403142; PubMed Central PMCID: PMC5389624.	<b>15</b>	<b>64</b>
14: Rahim I, Djerdjouri B, Sayed RK, Fernández-Ortiz M, Fernández-Gil B, Hidalgo-Gutiérrez A, López LC, Escames G, Reiter RJ, Acuña-Castroviejo D. Melatonin administration to wild-type mice and nontreated NLRP3 mutant mice share similar inhibition of the inflammatory response during sepsis. J Pineal Res. 2017	<b>3</b>	<b>84</b>

Aug;63(1). doi: 10.1111/jpi.12410. Epub 2017 Apr 29. PubMed PMID: 28370493.		
15: Leonardo-Mendonça RC, Ocaña-Wilhelmi J, de Haro T, de Teresa-Galván C, Guerra-Hernández E, Rusanova I, Fernández-Ortiz M, Sayed RKA, Escames G, Acuña-Castroviejo D. The benefit of a supplement with the antioxidant melatonin on redox status and muscle damage in resistance-trained athletes. <i>Appl Physiol Nutr Metab.</i> 2017 Jul;42(7):700-707. doi: 10.1139/apnm-2016-0677. Epub 2017 Feb 13. PubMed PMID: 28192673.	<b>23</b>	<b>81</b>
16: García JA, Ortiz F, Miana J, Doerrier C, Fernández-Ortiz M, Rusanova I, Escames G, García JJ, Acuña-Castroviejo D. Contribution of inducible and neuronal nitric oxide synthases to mitochondrial damage and melatonin rescue in LPS-treated mice. <i>J Physiol Biochem.</i> 2017 May;73(2):235-244. doi: 10.1007/s13105-017-0548-2. Epub 2017 Jan 21. PubMed PMID: 28110436.	<b>35</b>	<b>83</b>
17: Luna-Sánchez M, Hidalgo-Gutiérrez A, Hildebrandt TM, Chaves-Serrano J, Barriocanal-Casado E, Santos-Fandila Á, Romero M, Sayed RK, Duarte J, Prokisch H, Schuelke M, Distelmaier F, Escames G, Acuña-Castroviejo D, López LC. CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. <i>EMBO Mol Med.</i> 2017 Jan;9(1):78-95. doi: 10.15252/emmm.201606345. PubMed PMID: 27856619; PubMed Central PMCID: PMC5210161.	<b>7</b>	<b>128</b>
18: López-Armas G, Flores-Soto ME, Chaparro-Huerta V, Jave-Suarez LF, Soto-Rodríguez S, Rusanova I, Acuña-Castroviejo D, González-Perez O, González-Castañeda RE. Prophylactic Role of Oral Melatonin Administration on Neurogenesis in Adult Balb/C Mice during REM Sleep Deprivation. <i>Oxid Med Cell Longev.</i> 2016;2016:2136902. doi: 10.1155/2016/2136902. Epub 2016 Aug 7. PubMed PMID: 27579149; PubMed Central PMCID: PMC4992538.	<b>56</b>	<b>189</b>
19: Sayed RK, de Leonardis EC, Guerrero-Martínez JA, Rahim I, Mokhtar DM, Saleh AM, Abdalla KE, Pozo MJ, Escames G, López LC, Acuña-Castroviejo D. Identification of morphological markers of sarcopenia at early stage of aging in skeletal muscle of mice. <i>Exp Gerontol.</i> 2016 Oct;83:22-30. doi: 10.1016/j.exger.2016.07.007. Epub 2016 Jul 18. PubMed PMID: 27435496.	<b>12</b>	<b>49</b>
20: Díaz-Casado ME, Lima E, García JA, Doerrier C, Aranda P, Sayed RK, Guerra-Librero A, Escames G, López LC, Acuña-Castroviejo D. Melatonin rescues zebrafish embryos from the parkinsonian phenotype restoring the parkin/PINK1/DJ-1/MUL1 network. <i>J Pineal Res.</i> 2016 Aug;61(1):96-107. doi: 10.1111/jpi.12332. Epub 2016 Apr 30. PubMed PMID: 27064726.	<b>3</b>	<b>84</b>
21: Doerrier C, García JA, Volt H, Díaz-Casado ME, Luna-Sánchez M, Fernández-Gil B, Escames G, López LC, Acuña-Castroviejo D. Permeabilized myocardial fibers as model to detect mitochondrial dysfunction during sepsis and melatonin effects without disruption of mitochondrial network. <i>Mitochondrion.</i> 2016 Mar;27:56-63. doi: 10.1016/j.mito.2015.12.010. Epub 2015 Dec 31. PubMed PMID: 26748191.	<b>51</b>	<b>166</b>
22: Volt H, García JA, Doerrier C, Díaz-Casado ME, Guerra-Librero A, López LC, Escames G, Tresguerres JA, Acuña-Castroviejo D. Same molecule but different expression: aging and sepsis trigger NLRP3 inflammasome activation, a target of	<b>3</b>	<b>84</b>

melatonin. <i>J Pineal Res.</i> 2016 Mar;60(2):193-205. doi: 10.1111/jpi.12303. Epub 2016 Jan 13. PubMed PMID: 26681113.		
23: Forman K, Vara E, García C, Kireev R, Cuesta S, Acuña-Castroviejo D, Tresguerres JA. Influence of aging and growth hormone on different members of the NFkB family and Ikb expression in the heart from a murine model of senescence-accelerated aging. <i>Exp Gerontol.</i> 2016 Jan;73:114-20. doi: 10.1016/j.exger.2015.11.005. Epub 2015 Nov 12. PubMed PMID: 26581911.	<b>12</b>	<b>49</b>
24: Leonardo-Mendonça RC, Martinez-Nicolas A, de Teresa Galván C, Ocaña-Wilhelmi J, Rusanova I, Guerra-Hernández E, Escames G, Acuña-Castroviejo D. The benefits of four weeks of melatonin treatment on circadian patterns in resistance-trained athletes. <i>Chronobiol Int.</i> 2015;32(8):1125-34. doi: 10.3109/07420528.2015.1069830. Epub 2015 Sep 11. PubMed PMID: 26361788.	<b>13</b>	<b>86</b>
25: Nieto CI, Cabildo MP, Cornago MP, Sanz D, Claramunt RM, Torralba MC, Torres MR, Elguero J, García JA, López A, Acuña-Castroviejo D. Fluorination Effects on NOS Inhibitory Activity of Pyrazoles Related to Curcumin. <i>Molecules.</i> 2015 Aug 28;20(9):15643-65. doi: 10.3390/molecules200915643. PubMed PMID: 26343623.	<b>21</b>	<b>57</b>
26: García JA, Volt H, Venegas C, Doerrier C, Escames G, López LC, Acuña-Castroviejo D. Disruption of the NF-κB/NLRP3 connection by melatonin requires retinoid-related orphan receptor-α and blocks the septic response in mice. <i>FASEB J.</i> 2015 Sep;29(9):3863-75. doi: 10.1096/fj.15-273656. Epub 2015 Jun 4. PubMed PMID: 26045547.	<b>7</b>	<b>86</b>
27: Acuña-Castroviejo D, Bueno-Laraño P. Comment on "Serum melatonin levels are associated with mortality in severe septic patients" by Lorente et al., <i>J Crit Care</i> (2015), <a href="http://dx.doi.org/10.1016/j.jcrc.2015.03.023">http://dx.doi.org/10.1016/j.jcrc.2015.03.023</a> . <i>J Crit Care.</i> 2015 Oct;30(5):1133. doi: 10.1016/j.jcrc.2015.05.009. Epub 2015 May 19. PubMed PMID: 26025099.	<b>18</b>	<b>33</b>
28: Luna-Sánchez M, Díaz-Casado E, Barca E, Tejada MÁ, Montilla-García Á, Cobos EJ, Escames G, Acuña-Castroviejo D, Quinzii CM, López LC. The clinical heterogeneity of coenzyme Q10 deficiency results from genotypic differences in the Coq9 gene. <i>EMBO Mol Med.</i> 2015 May;7(5):670-87. doi: 10.15252/emmm.201404632. PubMed PMID: 25802402; PubMed Central PMCID: PMC4492823.	<b>9</b>	<b>123</b>
29: Abdel Moneim AE, Ortiz F, Leonardo-Mendonça RC, Vergano-Villodres R, Guerrero-Martínez JA, López LC, Acuña-Castroviejo D, Escames G. Protective effects of melatonin against oxidative damage induced by Egyptian cobra ( <i>Naja haje</i> ) crude venom in rats. <i>Acta Trop.</i> 2015 Mar;143:58-65. doi: 10.1016/j.actatropica.2014.12.007. Epub 2014 Dec 24. PubMed PMID: 25542296.	<b>5</b>	<b>19</b>
30: Doerrier C, García JA, Volt H, Díaz-Casado ME, Lima-Cabello E, Ortiz F, Luna-Sánchez M, Escames G, López LC, Acuña-Castroviejo D. Identification of mitochondrial deficits and melatonin targets in liver of septic mice by high-resolution respirometry. <i>Life Sci.</i> 2015 Jan 15;121:158-65. doi: 10.1016/j.lfs.2014.11.031. Epub 2014 Dec 10. PubMed PMID: 25498899.	<b>53</b>	<b>123</b>
31: Escames G, Díaz-Casado ME, Doerrier C, Luna-Sánchez M, López LC, Acuña-Castroviejo D. Early gender differences in the redox status of the brain mitochondria with age: effects of melatonin therapy. <i>Horm Mol Biol Clin Investig.</i>	<b>0</b>	<b>0</b>

2013 Dec;16(2):91-100. doi: 10.1515/hmbci-2013-0026. PubMed PMID: 25436750.		
32: Tresguerres JA, Cuesta S, Kireev RA, Garcia C, Acuña-Castroviejo D, Vara E. Beneficial effect of melatonin treatment on age-related insulin resistance and on the development of type 2 diabetes. <i>Horm Mol Biol Clin Investig.</i> 2013 Dec;16(2):47-54. doi: 10.1515/hmbci-2013-0041. PubMed PMID: 25436746.	<b>0</b>	<b>0</b>
33: Ortiz F, Acuña-Castroviejo D, Doerrier C, Dayoub JC, López LC, Venegas C, García JA, López A, Volt H, Luna-Sánchez M, Escames G. Melatonin blunts the mitochondrial/NLRP3 connection and protects against radiation-induced oral mucositis. <i>J Pineal Res.</i> 2015 Jan;58(1):34-49. doi: 10.1111/jpi.12191. Epub 2014 Dec 4. PubMed PMID: 25388914.	<b>3</b>	<b>83</b>
34: Navarro-Alarcón M, Ruiz-Ojeda FJ, Blanca-Herrera RM, A-Serrano MM, Acuña-Castroviejo D, Fernández-Vázquez G, Agil A. Melatonin and metabolic regulation: a review. <i>Food Funct.</i> 2014 Nov;5(11):2806-32. doi: 10.1039/c4fo00317a. Review. PubMed PMID: 25207999.	<b>16</b>	<b>123</b>
35: Lima-Cabello E, Díaz-Casado ME, Guerrero JA, Otalora BB, Escames G, López LC, Reiter RJ, Acuña-Castroviejo D. A review of the melatonin functions in zebrafish physiology. <i>J Pineal Res.</i> 2014 Aug;57(1):1-9. doi: 10.1111/jpi.12149. Epub 2014 Jul 3. PubMed PMID: 24920150.	<b>3</b>	<b>83</b>
36: Leonardo-Mendonça RC, Concepción-Huertas M, Guerra-Hernández E, Zabala M, Escames G, Acuña-Castroviejo D. Redox status and antioxidant response in professional cyclists during training. <i>Eur J Sport Sci.</i> 2014;14(8):830-8. doi: 10.1080/17461391.2014.915345. Epub 2014 May 7. PubMed PMID: 24803271.	<b>47</b>	<b>81</b>
37: Reiter RJ, Rosales-Corral SA, Liu XY, Acuna-Castroviejo D, Escames G, Tan DX. Melatonin in the oral cavity: physiological and pathological implications. <i>J Periodontal Res.</i> 2015 Feb;50(1):9-17. doi: 10.1111/jre.12176. Epub 2014 Mar 25. Review. PubMed PMID: 24665831.	<b>16</b>	<b>87</b>
38: García-Corzo L, Luna-Sánchez M, Doerrier C, Ortiz F, Escames G, Acuña-Castroviejo D, López LC. Ubiquinol-10 ameliorates mitochondrial encephalopathy associated with CoQ deficiency. <i>Biochim Biophys Acta.</i> 2014 Jul;1842(7):893-901. doi: 10.1016/j.bbadis.2014.02.008. Epub 2014 Feb 24. PubMed PMID: 24576561.	<b>11</b>	<b>74</b>
39: Acuña-Castroviejo D, Escames G, Venegas C, Díaz-Casado ME, Lima-Cabello E, López LC, Rosales-Corral S, Tan DX, Reiter RJ. Extrapineal melatonin: sources, regulation, and potential functions. <i>Cell Mol Life Sci.</i> 2014 Aug;71(16):2997-3025. doi: 10.1007/s00018-014-1579-2. Epub 2014 Feb 20. Review. PubMed PMID: 24554058.	<b>39</b>	<b>291</b>
40: Martin-Cano FE, Camello-Almaraz C, Acuña-Castroviejo D, Pozo MJ, Camello PJ. Age-related changes in mitochondrial function of mouse colonic smooth muscle: beneficial effects of melatonin. <i>J Pineal Res.</i> 2014 Mar;56(2):163-74. doi: 10.1111/jpi.12109. Epub 2013 Dec 26. PubMed PMID: 24313280.	<b>3</b>	<b>83</b>

41: Ortiz F, García JA, Acuña-Castroviejo D, Doerrier C, López A, Venegas C, Volt H, Luna-Sánchez M, López LC, Escames G. The beneficial effects of melatonin against heart mitochondrial impairment during sepsis: inhibition of iNOS and preservation of nNOS. <i>J Pineal Res.</i> 2014 Jan;56(1):71-81. doi: 10.1111/jpi.12099. Epub 2013 Oct 21. PubMed PMID: 24117944.	<b>3</b>	<b>83</b>
42: Carrión MD, Chayah M, Entrena A, López A, Gallo MA, Acuña-Castroviejo D, Camacho ME. Synthesis and biological evaluation of 4,5-dihydro-1H-pyrazole derivatives as potential nNOS/iNOS selective inhibitors. Part 2: Influence of diverse substituents in both the phenyl moiety and the acyl group. <i>Bioorg Med Chem.</i> 2013 Jul 15;21(14):4132-42. doi: 10.1016/j.bmc.2013.05.016. Epub 2013 May 17. PubMed PMID: 23735830.	<b>17</b>	<b>56</b>
43: Srinivasan V, Zakaria R, Jeet Singh H, Acuna-Castroviejo D. Melatonin and its agonists in pain modulation and its clinical application. <i>Arch Ital Biol.</i> 2012 Dec;150(4):274-89. doi: 10.4449/aib.v150i4.1391. Review. PubMed PMID: 23479460.	<b>245</b>	<b>255</b>
44: López LC, Cabrera-Vique C, Venegas C, García-Corzo L, Luna-Sánchez M, Acuña-Castroviejo D, Escames G. Argan oil-contained antioxidants for human mitochondria. <i>Nat Prod Commun.</i> 2013 Jan;8(1):47-50. Review. PubMed PMID: 23472457.	<b>69</b>	<b>124</b>
45: Concepcion-Huertas M, Chiroso LJ, De Haro T, Chiroso IJ, Romero V, Aguilar-Martinez D, Leonardo-Mendonça RC, Doerrier C, Escames G, Acuña-Castroviejo D. Changes in the redox status and inflammatory response in handball players during one-year of competition and training. <i>J Sports Sci.</i> 2013;31(11):1197-207. doi: 10.1080/02640414.2013.773404. Epub 2013 Mar 7. PubMed PMID: 23464526.	<b>21</b>	<b>81</b>
46: García-Corzo L, Luna-Sánchez M, Doerrier C, García JA, Guarás A, Acín-Pérez R, Bullejos-Peregrín J, López A, Escames G, Enríquez JA, Acuña-Castroviejo D, López LC. Dysfunctional Coq9 protein causes predominant encephalomyopathy associated with CoQ deficiency. <i>Hum Mol Genet.</i> 2013 Mar 15;22(6):1233-48. doi: 10.1093/hmg/ddt530. Epub 2012 Dec 18. PubMed PMID: 23255162.	<b>13</b>	<b>161</b>
47: Srinivasan V, Lauterbach EC, Ho KY, Acuña-Castroviejo D, Zakaria R, Brzezinski A. Melatonin in antinociception: its therapeutic applications. <i>Curr Neuropharmacol.</i> 2012 Jun;10(2):167-78. doi: 10.2174/157015912800604489. PubMed PMID: 23204986; PubMed Central PMCID: PMC3386506.	<b>86</b>	<b>253</b>
48: Tan DX, Manchester LC, Liu X, Rosales-Corral SA, Acuna-Castroviejo D, Reiter RJ. Mitochondria and chloroplasts as the original sites of melatonin synthesis: a hypothesis related to melatonin's primary function and evolution in eukaryotes. <i>J Pineal Res.</i> 2013 Mar;54(2):127-38. doi: 10.1111/jpi.12026. Epub 2012 Nov 9. Review. PubMed PMID: 23137057.	<b>4</b>	<b>80</b>
49: Venegas C, García JA, Doerrier C, Volt H, Escames G, López LC, Reiter RJ, Acuña-Castroviejo D. Analysis of the daily changes of melatonin receptors in the rat liver. <i>J Pineal Res.</i> 2013 Apr;54(3):313-21. doi: 10.1111/jpi.12019. Epub 2012 Oct 30. PubMed PMID: 23110416.	<b>3</b>	<b>81</b>

50: Srinivasan V, Zakaria R, Othman Z, Lauterbach EC, Acuña-Castroviejo D. Agomelatine in depressive disorders: its novel mechanisms of action. <i>J Neuropsychiatry Clin Neurosci</i> . 2012 Summer;24(3):290-308. doi: 10.1176/appi.neuropsych.11090216. Review. PubMed PMID: 23037643.	<b>57</b>	<b>130</b>
51: Öztürk G, Akbulut KG, Güney Ş, Acuna-Castroviejo D. Age-related changes in the rat brain mitochondrial antioxidative enzyme ratios: modulation by melatonin. <i>Exp Gerontol</i> . 2012 Sep;47(9):706-11. doi: 10.1016/j.exger.2012.06.011. Epub 2012 Jul 11. PubMed PMID: 22796061.	<b>10</b>	<b>47</b>
52: Rosales-Corral S, Acuna-Castroviejo D, Tan DX, López-Armas G, Cruz-Ramos J, Munoz R, Melnikov VG, Manchester LC, Reiter RJ. Accumulation of exogenous amyloid-beta peptide in hippocampal mitochondria causes their dysfunction: a protective role for melatonin. <i>Oxid Med Cell Longev</i> . 2012;2012:843649. doi: 10.1155/2012/843649. Epub 2012 May 13. PubMed PMID: 22666521; PubMed Central PMCID: PMC3359765.	<b>112</b>	<b>178</b>
53: Camacho ME, Carrion MD, Lopez-Cara LC, Entrena A, Gallo MA, Espinosa A, Escames G, Acuna-Castroviejo D. Melatonin synthetic analogs as nitric oxide synthase inhibitors. <i>Mini Rev Med Chem</i> . 2012 Jun;12(7):600-17. Review. PubMed PMID: 22512552.	<b>20</b>	<b>54</b>
54: López-Cara LC, Carrión MD, Entrena A, Gallo MA, Espinosa A, López A, Escames G, Acuña-Castroviejo D, Camacho ME. 1,3,4-Thiadiazole derivatives as selective inhibitors of iNOS versus nNOS: Synthesis and structure-activity dependence. <i>Eur J Med Chem</i> . 2012 Apr;50:129-39. doi: 10.1016/j.ejmech.2012.01.047. Epub 2012 Feb 1. PubMed PMID: 22336385.	<b>11</b>	<b>54</b>
55: García-Mesa Y, Giménez-Llort L, López LC, Venegas C, Cristòfol R, Escames G, Acuña-Castroviejo D, Sanfeliu C. Melatonin plus physical exercise are highly neuroprotective in the 3xTg-AD mouse. <i>Neurobiol Aging</i> . 2012 Jun;33(6):1124.e13-29. doi: 10.1016/j.neurobiolaging.2011.11.016. Epub 2011 Dec 16. PubMed PMID: 22177720.	<b>3</b>	<b>44</b>
56: Rosales-Corral SA, Acuña-Castroviejo D, Coto-Montes A, Boga JA, Manchester LC, Fuentes-Broto L, Korkmaz A, Ma S, Tan DX, Reiter RJ. Alzheimer's disease: pathological mechanisms and the beneficial role of melatonin. <i>J Pineal Res</i> . 2012 Mar;52(2):167-202. doi: 10.1111/j.1600-079X.2011.00937.x. Epub 2011 Nov 23. Review. PubMed PMID: 22107053.	<b>4</b>	<b>80</b>
57: Venegas C, García JA, Escames G, Ortiz F, López A, Doerrier C, García-Corzo L, López LC, Reiter RJ, Acuña-Castroviejo D. Extrapineal melatonin: analysis of its subcellular distribution and daily fluctuations. <i>J Pineal Res</i> . 2012 Mar;52(2):217-27. doi: 10.1111/j.1600-079X.2011.00931.x. Epub 2011 Sep 2. PubMed PMID: 21884551.	<b>4</b>	<b>80</b>
58: Escames G, Ozturk G, Baño-Otálora B, Pozo MJ, Madrid JA, Reiter RJ, Serrano E, Concepción M, Acuña-Castroviejo D. Exercise and melatonin in humans: reciprocal benefits. <i>J Pineal Res</i> . 2012 Jan;52(1):1-11. doi: 10.1111/j.1600-079X.2011.00924.x. Epub 2011 Aug 16. Review. PubMed PMID: 21848991.	<b>4</b>	<b>80</b>

59: Escames G, López LC, García JA, García-Corzo L, Ortiz F, Acuña-Castroviejo D. Mitochondrial DNA and inflammatory diseases. Hum Genet. 2012 Feb;131(2):161-73. doi: 10.1007/s00439-011-1057-y. Epub 2011 Jul 7. Review. PubMed PMID: 21735170.	<b>23</b>	<b>156</b>
60: López-Ramos JC, Jurado-Parras MT, Sanfeliu C, Acuña-Castroviejo D, Delgado-García JM. Learning capabilities and CA1-prefrontal synaptic plasticity in a mice model of accelerated senescence. Neurobiol Aging. 2012 Mar;33(3):627.e13-26. doi: 10.1016/j.neurobiolaging.2011.04.005. Epub 2011 Jun 12. PubMed PMID: 21664007.	<b>3</b>	<b>44</b>
61: Acuña-Castroviejo D, Carretero M, Doerrier C, López LC, García-Corzo L, Tresguerres JA, Escames G. Melatonin protects lung mitochondria from aging. Age (Dordr). 2012 Jun;34(3):681-92. doi: 10.1007/s11357-011-9267-8. Epub 2011 May 26. PubMed PMID: 21614449; PubMed Central PMCID: PMC3337938.	<b>4</b>	<b>44</b>

### JOSÉ FÉLIX VARGAS PALOMARES

<b>Publicación</b>	<b>Posición de revista en el área</b>	<b>Total revistas en el área</b>
1: Segarra AB, Prieto I, Martínez-Canamero M, Vargas F, De Gasparo M, Vanderheyden P, Zorad S, Ramirez-Sanchez M. Cystinyl and pyroglutamyl-beta-naphthylamide hydrolyzing activities are modified coordinately between hypothalamus, liver and plasma depending on the thyroid status of adult male rats. J Physiol Pharmacol. 2018 Apr;69(2). doi: 10.26402/jpp.2018.2.04. Epub 2018 Jun 13. PubMed PMID: 29920473.	<b>44</b>	<b>83</b>
2: Vargas F, Romecín P, García-Guillén AI, Wangestein R, Vargas-Tendero P, Paredes MD, Atucha NM, García-Estañ J. Flavonoids in Kidney Health and Disease. Front Physiol. 2018 Apr 24;9:394. doi: 10.3389/fphys.2018.00394. eCollection 2018. Review. PubMed PMID: 29740333; PubMed Central PMCID: PMC5928447.	<b>20</b>	<b>83</b>
3: Quesada A, Segarra AB, Montoro-Molina S, de Gracia MD, Osuna A, O'Valle F, Gómez-Guzmán M, Vargas F, Wangenstein R. Glutamyl aminopeptidase in microvesicular and exosomal fractions of urine is related with renal dysfunction in cisplatin-treated rats. PLoS One. 2017 Apr 11;12(4):e0175462. doi:10.1371/journal.pone.0175462. eCollection 2017. PubMed PMID: 28399178; PubMed Central PMCID: PMC5388492.	<b>15</b>	<b>64</b>
4: Rodríguez-Gómez I, Moliz JN, Quesada A, Montoro-Molina S, Vargas-Tendero P, Osuna A, Wangenstein R, Vargas F. L-Arginine metabolism in cardiovascular and renal tissue from hyper- and hypothyroid rats. Exp Biol Med (Maywood). 2016 Mar;241(5):550-6. doi: 10.1177/1535370215619042. Epub 2015 Dec 15. PubMed PMID: 26674221; PubMed Central PMCID: PMC4950482.	<b>59</b>	<b>128</b>
5: Wangenstein R, Segarra AB, Ramirez-Sanchez M, Gasparo MD, Dominguez G, Banegas I, Vargas F, Vives F, Prieto I. Influence of thyroid disorders on the kidney expression and plasma activity of aminopeptidase A. Endocr Regul. 2015 Apr;49(2):68-72. PubMed PMID: 25960007.	<b>20</b>	<b>63</b>
6: Rodríguez-Gómez I, Manuel Moreno J, Jimenez R, Quesada A, Montoro-Molina S, Vargas-Tendero P, Wangenstein R, Vargas F. Effects of Arginase Inhibition in Hypertensive Hyperthyroid Rats. Am J Hypertens. 2015 Dec;28(12):1464-72. doi: 10.1093/ajh/hpv049. Epub 2015 Apr 23. PubMed PMID: 25907224.		



7: Montoro-Molina S, Quesada A, Zafra-Ruiz PV, O'Valle F, Vargas F, de Gracia Mdel C, Osuna A, Wangensteen R. Immunological detection of glutamyl aminopeptidase in urine samples from cisplatin-treated rats. <i>Proteomics Clin Appl.</i> 2015 Jun;9(5-6):630-5. doi: 10.1002/prca.201400096. Epub 2015 Feb 24. PubMed PMID: 25470983.	<b>28</b>	<b>77</b>
8: Wangensteen R, Rodríguez-Gómez I, Perez-Abud R, Quesada A, Montoro-Molina S, Osuna A, Vargas F. Dietary salt restriction in hyperthyroid rats. Differential influence on left and right ventricular mass. <i>Exp Biol Med (Maywood).</i> 2015 Jan;240(1):113-20. doi: 10.1177/1535370214544265. Epub 2014 Jul 16. PubMed PMID:25030483; PubMed Central PMCID: PMC4935192.	<b>57</b>	<b>124</b>
9: Rodríguez-Gómez I, Carmona-Cortés J, Wangensteen R, Vargas-Tendero P, Banegas I, Quesada A, García-Lora AM, Vargas F. The pro-oxidant buthionine sulfoximine (BSO) reduces tumor growth of implanted Lewis lung carcinoma in mice associated with increased protein carbonyl, tubulin abundance, and aminopeptidase activity. <i>Tumor Biol.</i> 2014 Aug;35(8):7799-805. doi: 10.1007/s13277-014-2046-2. Epub 2014 May 11. PubMed PMID: 24816945.	<b>69</b>	<b>211</b>
10: Carmona-Cortés J, Rodríguez-Gómez I, Wangensteen R, Banegas I, García-Lora AM, Quesada A, Osuna A, Vargas F. Effect of thyroid hormone-nitric oxide interaction on tumor growth, angiogenesis, and aminopeptidase activity in mice. <i>Tumor Biol.</i> 2014 Jun;35(6):5519-26. doi: 10.1007/s13277-014-1726-2. Epub 2014 Feb 20. PubMed PMID: 24549786.	<b>69</b>	<b>211</b>
11: Ferreyra C, Vargas F, Rodríguez-Gómez I, Pérez-Abud R, O'Valle F, Osuna A. Preconditioning with triiodothyronine improves the clinical signs and acute tubular necrosis induced by ischemia/reperfusion in rats. <i>PLoS One.</i> 2013 Sep 26;8(9):e74960. doi: 10.1371/journal.pone.0074960. eCollection 2013. PubMed PMID: 24086411; PubMed Central PMCID: PMC3784446.	<b>8</b>	<b>55</b>
12: Vargas-Tendero P, Rodríguez-Gómez I, Wangensteen R, Arcas R, Quintana M, Vargas F. New method for isolation of both kidneys for studies of vascular reactivity in rats. <i>Exp Biol Med (Maywood).</i> 2012 Dec;237(12):1457-61. doi: 10.1258/ebm.2012.012231. PubMed PMID: 23354404.	<b>48</b>	<b>121</b>
13: Rodríguez-Gómez I, Wangensteen R, Pérez-Abud R, Quesada A, Del Moral RG, Osuna A, O'Valle F, de Dios Luna J, Vargas F. Long-term consequences of uninephrectomy in male and female rats. <i>Hypertension.</i> 2012 Dec;60(6):1458-63. doi: 10.1161/HYPERTENSIONAHA.112.198499. Epub 2012 Oct 15. PubMed PMID: 23071124.	<b>3</b>	<b>68</b>
14: Rodríguez-Gómez I, Banegas I, Wangensteen R, Quesada A, Jiménez R, Gómez-Morales M, O'Valle F, Duarte J, Vargas F. Influence of thyroid state on cardiac and renal capillary density and glomerular morphology in rats. <i>J Endocrinol.</i> 2013 Jan 2;216(1):43-51. doi: 10.1530/JOE-12-0208. Print 2013 Jan. PubMed PMID: 23048210.	<b>46</b>	<b>124</b>
15: Quesada A, Vargas F, Montoro-Molina S, O'Valle F, Rodríguez-Martínez MD, Osuna A, Prieto I, Ramírez M, Wangensteen R. Urinary aminopeptidase activities as early and predictive biomarkers of renal dysfunction in cisplatin-treated rats. <i>PLoS One.</i> 2012;7(7):e40402. doi: 10.1371/journal.pone.0040402. Epub 2012 Jul 5. PubMed PMID: 22792302; PubMed Central PMCID: PMC3390365.	<b>7</b>	<b>56</b>
16: Quintela AM, Jiménez R, Gómez-Guzmán M, Zarzuelo MJ, Galindo P, Sánchez M, Vargas F, Cogolludo A, Tamargo J, Pérez-Vizcaíno F, Duarte J. Activation of peroxisome proliferator-activated receptor- $\beta$ / $\delta$ (PPAR $\beta$ / $\delta$ ) prevents endothelial dysfunction in type 1 diabetic rats. <i>Free Radic Biol Med.</i> 2012 Aug 15;53(4):730-41. doi: 10.1016/j.freeradbiomed.2012.05.045. Epub 2012 Jun 7. PubMed PMID: 22683600.	<b>17</b>	<b>122</b>

17: Galindo P, Rodríguez-Gómez I, González-Manzano S, Dueñas M, Jiménez R, Menéndez C, Vargas F, Tamargo J, Santos-Buelga C, Pérez-Vizcaíno F, Duarte J. Glucuronidated quercetin lowers blood pressure in spontaneously hypertensive rats via deconjugation. PLoS One. 2012;7(3):e32673. doi: 10.1371/journal.pone.0032673. Epub 2012 Mar 12. PubMed PMID: 22427863; PubMed Central PMCID: PMC3299686.	7	56
18: Vargas F, Rodríguez-Gómez I, Pérez-Abud R, Vargas Tendero P, Baca Y, Wangenstein R. Cardiovascular and renal manifestations of glutathione depletion induced by buthionine sulfoximine. Am J Hypertens. 2012 Jun;25(6):629-35. doi:10.1038/ajh.2011.240. Epub 2012 Jan 5. Review. PubMed PMID: 22223042.	16	68
19: Moreno JM, Pérez-Abud R, Wangenstein R, Rodríguez Gómez I, López Merino I, Osuna A, Vargas F. Function and expression of renal epithelial sodium transporters in rats with thyroid dysfunction. J Endocrinol Invest. 2012 Sep;35(8):735-41. Epub 2011 Nov 8. PubMed PMID: 22082806.	93	124
20: Vargas F, Rodríguez-Gómez I, Vargas-Tendero P, Jimenez E, Montiel M. The renin-angiotensin system in thyroid disorders and its role in cardiovascular and renal manifestations. J Endocrinol. 2012 Apr;213(1):25-36. doi:10.1530/JOE-11-0349. Epub 2011 Oct 31. Review. PubMed PMID: 22043064.	32	122
21: Gómez-Guzmán M, Jiménez R, Sánchez M, Zarzuelo MJ, Galindo P, Quintela AM, López-Sepúlveda R, Romero M, Tamargo J, Vargas F, Pérez-Vizcaíno F, Duarte J. Epicatechin lowers blood pressure, restores endothelial function, and decreases oxidative stress and endothelin-1 and NADPH oxidase activity in DOCA-salt hypertension. Free Radic Biol Med. 2012 Jan 1;52(1):70-9. doi: 10.1016/j.freeradbiomed.2011.09.015. Epub 2011 Sep 22. PubMed PMID: 22001745.	17	122

### GERMAINE ESCAMES ROSA

Publicación	Posición de revista en el área	Total revistas en el área
1: Sayed RKA, Fernández-Ortiz M, Diaz-Casado ME, Rusanova I, Rahim I, Escames G, López LC, Mokhtar DM, Acuña-Castroviejo D. The Protective Effect of Melatonin Against Age-Associated Sarcopenia-Dependent Tubular Aggregates Formation, Lactate Depletion and Mitochondrial Changes. J Gerontol A Biol Sci Med Sci. 2018 Mar 19. doi: 10.1093/gerona/gly059. [Epub ahead of print] PubMed PMID: 29562315.	3	49
2: Shen YQ, Guerra-Librero A, Fernandez-Gil BI, Florido J, García-López S, Martinez-Ruiz L, Mendivil-Perez M, Soto-Mercado V, Acuña-Castroviejo D, Ortega-Arellano H, Carriel V, Diaz-Casado ME, Reiter RJ, Rusanova I, Nieto A, López LC, Escames G. 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. J Pineal Res. 2018 Apr;64(3). doi: 10.1111/jpi.12461. Epub 2018 Jan 9. PubMed PMID: 29247557.	3	84
3: Díaz-Casado ME, Rusanova I, Aranda P, Fernández-Ortiz M, Sayed RKA, Fernández-Gil BI, Hidalgo-Gutiérrez A, Escames G, López LC, Acuña-Castroviejo D. In Vivo 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. Zebrafish. 2018	23	163

Feb;15(1):15-26. doi: 10.1089/zeb.2017.1479. Epub 2017 Nov 29. PubMed PMID: 29185873.		
4: Ortiz-Franco M, Planells E, Quintero B, Acuña-Castroviejo D, Rusanova I, Escames G, Molina-López J. Effect of Melatonin Supplementation on Antioxidant Status and DNA Damage in High Intensity Trained Athletes. <i>Int J Sports Med.</i> 2017 Dec;38(14):1117-1125. doi: 10.1055/s-0043-119881. Epub 2017 Nov 17. PubMed PMID: 29165732.	<b>25</b>	<b>81</b>
5: López A, Ortiz F, Doerrier C, Venegas C, Fernández-Ortiz M, Aranda P, Díaz-Casado ME, Fernández-Gil B, Barriocanal-Casado E, Escames G, López LC, Acuña-Castroviejo D. Mitochondrial impairment and melatonin protection in parkinsonian mice do not depend of inducible or neuronal nitric oxide synthases. <i>PLoS One.</i> 2017 Aug 11;12(8):e0183090. doi: 10.1371/journal.pone.0183090. eCollection 2017. PubMed PMID: 28800639; PubMed Central PMCID: PMC5553810.	<b>15</b>	<b>64</b>
6: Acuña-Castroviejo D, Rahim I, Acuña-Fernández C, Fernández-Ortiz M, Solera-Marín J, Sayed RKA, Díaz-Casado ME, Rusanova I, López LC, Escames G. Melatonin, clock genes and mitochondria in sepsis. <i>Cell Mol Life Sci.</i> 2017 Nov;74(21):3965-3987. doi: 10.1007/s00018-017-2610-1. Epub 2017 Aug 7. Review. PubMed PMID: 28785808.	<b>34</b>	<b>292</b>
7: Abdel Moneim AE, Guerra-Librero A, Florido J, Shen YQ, Fernández-Gil B, Acuña-Castroviejo D, Escames G. Oral Mucositis: Melatonin Gel an Effective New Treatment. <i>Int J Mol Sci.</i> 2017 May 7;18(5). pii: E1003. doi: 10.3390/ijms18051003. Review. PubMed PMID: 28481279; PubMed Central PMCID:PMC5454916.	<b>52</b>	<b>170</b>
8: Mendivil-Perez M, Soto-Mercado V, Guerra-Librero A, Fernandez-Gil BI, Florido J, Shen YQ, Tejada MA, Capilla-Gonzalez V, Rusanova I, Garcia-Verdugo JM, Acuña-Castroviejo D, López LC, Velez-Pardo C, Jimenez-Del-Rio M, Ferrer JM, Escames G. Melatonin enhances neural stem cell differentiation and engraftment by increasing mitochondrial function. <i>J Pineal Res.</i> 2017 Sep;63(2). doi: 10.1111/jpi.12415. Epub 2017 May 18. PubMed PMID: 28423196.	<b>3</b>	<b>84</b>
9: Fernández-Gil B, Moneim AE, Ortiz F, Shen YQ, Soto-Mercado V, Mendivil-Perez M, Guerra-Librero A, Acuña-Castroviejo D, Molina-Navarro MM, García-Verdugo JM, Sayed RK, Florido J, Luna JD, López LC, Escames G. Melatonin protects rats from radiotherapy-induced small intestine toxicity. <i>PLoS One.</i> 2017 Apr 12;12(4):e0174474. doi: 10.1371/journal.pone.0174474. eCollection 2017. PubMed PMID: 28403142; PubMed Central PMCID: PMC5389624.	<b>15</b>	<b>64</b>
10: Rahim I, Djerdjouri B, Sayed RK, Fernández-Ortiz M, Fernández-Gil B, Hidalgo-Gutiérrez A, López LC, Escames G, Reiter RJ, Acuña-Castroviejo D. Melatonin administration to wild-type mice and nontreated NLRP3 mutant mice share similar inhibition of the inflammatory response during sepsis. <i>J Pineal Res.</i> 2017 Aug;63(1). doi: 10.1111/jpi.12410. Epub 2017 Apr 29. PubMed PMID: 28370493.	<b>3</b>	<b>84</b>

11: Leonardo-Mendonça RC, Ocaña-Wilhelmi J, de Haro T, de Teresa-Galván C, Guerra-Hernández E, Rusanova I, Fernández-Ortiz M, Sayed RKA, Escames G, Acuña-Castroviejo D. The benefit of a supplement with the antioxidant melatonin on redox status and muscle damage in resistance-trained athletes. <i>Appl Physiol Nutr Metab.</i> 2017 Jul;42(7):700-707. doi: 10.1139/apnm-2016-0677. Epub 2017 Feb 13. PubMed PMID: 28192673.	<b>23</b>	<b>81</b>
12: García JA, Ortiz F, Miana J, Doerrier C, Fernández-Ortiz M, Rusanova I, Escames G, García JJ, Acuña-Castroviejo D. Contribution of inducible and neuronal nitric oxide synthases to mitochondrial damage and melatonin rescue in LPS-treated mice. <i>J Physiol Biochem.</i> 2017 May;73(2):235-244. doi: 10.1007/s13105-017-0548-2. Epub 2017 Jan 21. PubMed PMID: 28110436.	<b>35</b>	<b>83</b>
13: Luna-Sánchez M, Hidalgo-Gutiérrez A, Hildebrandt TM, Chaves-Serrano J, Barriocanal-Casado E, Santos-Fandila Á, Romero M, Sayed RK, Duarte J, Prokisch H, Schuelke M, Distelmaier F, Escames G, Acuña-Castroviejo D, López LC. CoQ deficiency causes disruption of mitochondrial sulfide oxidation, a new pathomechanism associated with this syndrome. <i>EMBO Mol Med.</i> 2017 Jan;9(1):78-95. doi: 10.15252/emmm.201606345. PubMed PMID: 27856619; PubMed Central PMCID: PMC5210161.	<b>7</b>	<b>128</b>
14: Sayed RK, de Leonardis EC, Guerrero-Martínez JA, Rahim I, Mokhtar DM, Saleh AM, Abdalla KE, Pozo MJ, Escames G, López LC, Acuña-Castroviejo D. Identification of morphological markers of sarcopenia at early stage of aging in skeletal muscle of mice. <i>Exp Gerontol.</i> 2016 Oct;83:22-30. doi: 10.1016/j.exger.2016.07.007. Epub 2016 Jul 18. PubMed PMID: 27435496.	<b>12</b>	<b>49</b>
15: Díaz-Casado ME, Lima E, García JA, Doerrier C, Aranda P, Sayed RK, Guerra-Librero A, Escames G, López LC, Acuña-Castroviejo D. Melatonin rescues zebrafish embryos from the parkinsonian phenotype restoring the parkin/PINK1/DJ-1/MUL1 network. <i>J Pineal Res.</i> 2016 Aug;61(1):96-107. doi: 10.1111/jpi.12332. Epub 2016 Apr 30. PubMed PMID: 27064726.	<b>3</b>	<b>84</b>
16: Doerrier C, García JA, Volt H, Díaz-Casado ME, Luna-Sánchez M, Fernández-Gil B, Escames G, López LC, Acuña-Castroviejo D. Permeabilized myocardial fibers as model to detect mitochondrial dysfunction during sepsis and melatonin effects without disruption of mitochondrial network. <i>Mitochondrion.</i> 2016 Mar;27:56-63. doi: 10.1016/j.mito.2015.12.010. Epub 2015 Dec 31. PubMed PMID: 26748191.	<b>51</b>	<b>166</b>
17: Volt H, García JA, Doerrier C, Díaz-Casado ME, Guerra-Librero A, López LC, Escames G, Tresguerres JA, Acuña-Castroviejo D. Same molecule but different expression: aging and sepsis trigger NLRP3 inflammasome activation, a target of melatonin. <i>J Pineal Res.</i> 2016 Mar;60(2):193-205. doi: 10.1111/jpi.12303. Epub 2016 Jan 13. PubMed PMID: 26681113.	<b>3</b>	<b>84</b>
18: Puig Á, Rancan L, Paredes SD, Carrasco A, Escames G, Vara E, Tresguerres JA. Melatonin decreases the expression of inflammation and apoptosis markers in the lung of a senescence-accelerated mice model. <i>Exp Gerontol.</i> 2016 Mar;75:1-7. doi: 10.1016/j.exger.2015.11.021. Epub 2015 Dec 1. PubMed PMID: 26656745.	<b>15</b>	<b>50</b>

19: Leonardo-Mendonça RC, Martínez-Nicolas A, de Teresa Galván C, Ocaña-Wilhelmi J, Rusanova I, Guerra-Hernández E, Escames G, Acuña-Castroviejo D. The benefits of four weeks of melatonin treatment on circadian patterns in resistance-trained athletes. <i>Chronobiol Int.</i> 2015;32(8):1125-34. doi: 10.3109/07420528.2015.1069830. Epub 2015 Sep 11. PubMed PMID: 26361788.	<b>13</b>	<b>86</b>
20: García JA, Volt H, Venegas C, Doerrier C, Escames G, López LC, Acuña-Castroviejo D. Disruption of the NF-κB/NLRP3 connection by melatonin requires retinoid-related orphan receptor-α and blocks the septic response in mice. <i>FASEB J.</i> 2015 Sep;29(9):3863-75. doi: 10.1096/fj.15-273656. Epub 2015 Jun 4. PubMed PMID: 26045547.	<b>7</b>	<b>86</b>
21: Luna-Sánchez M, Díaz-Casado E, Barca E, Tejada MÁ, Montilla-García Á, Cobos EJ, Escames G, Acuña-Castroviejo D, Quinzii CM, López LC. The clinical heterogeneity of coenzyme Q10 deficiency results from genotypic differences in the Coq9 gene. <i>EMBO Mol Med.</i> 2015 May;7(5):670-87. doi: 10.15252/emmm.201404632. PubMed PMID: 25802402; PubMed Central PMCID: PMC4492823.	<b>9</b>	<b>123</b>
22: Abdel Moneim AE, Ortiz F, Leonardo-Mendonça RC, Vergano-Villodres R, Guerrero-Martínez JA, López LC, Acuña-Castroviejo D, Escames G. Protective effects of melatonin against oxidative damage induced by Egyptian cobra ( <i>Naja haje</i> ) crude venom in rats. <i>Acta Trop.</i> 2015 Mar;143:58-65. doi: 10.1016/j.actatropica.2014.12.007. Epub 2014 Dec 24. PubMed PMID: 25542296.	<b>5</b>	<b>19</b>
23: Doerrier C, García JA, Volt H, Díaz-Casado ME, Lima-Cabello E, Ortiz F, Luna-Sánchez M, Escames G, López LC, Acuña-Castroviejo D. Identification of mitochondrial deficits and melatonin targets in liver of septic mice by high-resolution respirometry. <i>Life Sci.</i> 2015 Jan 15;121:158-65. doi: 10.1016/j.lfs.2014.11.031. Epub 2014 Dec 10. PubMed PMID: 25498899.	<b>53</b>	<b>123</b>
24: Escames G, Díaz-Casado ME, Doerrier C, Luna-Sánchez M, López LC, Acuña-Castroviejo D. Early gender differences in the redox status of the brain mitochondria with age: effects of melatonin therapy. <i>Horm Mol Biol Clin Investig.</i> 2013 Dec;16(2):91-100. doi: 10.1515/hmbci-2013-0026. PubMed PMID: 25436750.	<b>0</b>	<b>0</b>
25: Paredes SD, Forman KA, García C, Vara E, Escames G, Tresguerres JA. Protective actions of melatonin and growth hormone on the aged cardiovascular system. <i>Horm Mol Biol Clin Investig.</i> 2014 May;18(2):79-88. doi: 10.1515/hmbci-2014-0016. Review. PubMed PMID: 25390004.	<b>0</b>	<b>0</b>
26: Ortiz F, Acuña-Castroviejo D, Doerrier C, Dayoub JC, López LC, Venegas C, García JA, López A, Volt H, Luna-Sánchez M, Escames G. Melatonin blunts the mitochondrial/NLRP3 connection and protects against radiation-induced oral mucositis. <i>J Pineal Res.</i> 2015 Jan;58(1):34-49. doi: 10.1111/jpi.12191. Epub 2014 Dec 4. PubMed PMID: 25388914.	<b>3</b>	<b>83</b>
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**LUIS CARLOS LÓPEZ GARCÍA**

Publicación	Posición de revista en el área	Total revistas en el área
Sayed RKA, Fernández-Ortiz M, Díaz-Casado ME, Rusanova I, Rahim I, Escames G, López LC, Mokhtar DM, Acuña-Castroviejo D. The Protective Effect of Melatonin Against Age-Associated Sarcopenia-Dependent Tubular Aggregates Formation, Lactate Depletion and Mitochondrial Changes. <i>J Gerontol A Biol Sci Med Sci</i> . 2018 Mar 19. doi: 10.1093/gerona/gly059. [Epub ahead of print] PubMed PMID: 29562315.	7	53
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