# MarÃa del Carmen RodrÃguez-SÃ¡nch

List of Publications by Year
in descending order



| 60 | 5,092 | 30 | 60 |
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| papers | citations | h-index (159358) | g-index (128067) |
| 60 | 60 | 60 | 5073 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Regulation of antioxidant enzymes: a significant role for melatonin. Journal of Pineal Research, 2004, 36, 1-9. | 3.4 | 1,713 |
| 2 | Neurohormone melatonin prevents cell damage: effect on gene expression for antioxidant enzymes. FASEB Journal, 1996, 10, 882-890. | 0.2 | 438 |
| 3 | Melatonin increases gene expression for antioxidant enzymes in rat brain cortex. Journal of Pineal Research, 1998, 24, 83-89. | 3.4 | 287 |
| 4 | Anti-inflammatory actions of melatonin and its metabolites, N1-acetyl-N2-formyl-5-methoxykynuramine (AFMK) and N1-acetyl-5-methoxykynuramine (AMK), in macrophages. Journal of Neuroimmunology, 2005, 165, 139-149. | 1.1 | 274 |
| 5 | Protective effect of melatonin in a chronic experimental model of Parkinsonâ€™s disease. Brain Research, 2002, 943, 163-173. | 1.1 | 148 |
| 6 | Melatonin prevents apoptosis induced by 6-hydroxydopamine in neuronal cells: Implications for Parkinson's disease. Journal of Pineal Research, 1998, 24, 179-192. | 3.4 | 138 |
| 7 | Melatonin and Parkinson's Disease. Endocrine, 2005, 27, 169-178. | 2.2 | 129 |
| 8 | Intracellular Signaling Pathways Involved in the Cell Growth Inhibition of Glioma Cells by Melatonin. Cancer Research, 2006, 66, 1081-1088. | 0.4 | 129 |
| 9 | The pineal neurohormone melatonin prevents in vivo and in vitro apoptosis in thymocytes. Journal of Pineal Research, 1995, 19, 178-188. | 3.4 | 122 |
| 10 | Synergistic antitumor effect of melatonin with several chemotherapeutic drugs on human Ewing sarcoma cancer cells: potentiation of the extrinsic apoptotic pathway. Journal of Pineal Research, 2010, 48, 72-80. | 3.4 | 114 |
| 11 | Melatonin induces apoptosis in human neuroblastoma cancer cells. Journal of Pineal Research, 2006, 41, 130-135. | 3.4 | 97 |
| 12 | Melatonin regulates glucocorticoid receptor: an answer to its antiapoptotic action in thymus. FASEB Journal, 1999, 13, 1547-1556. | 0.2 | 92 |
| 13 | Mechanisms Involved in the Pro-Apoptotic Effect of Melatonin in Cancer Cells. International Journal of Molecular Sciences, 2013, 14, 6597-6613. | 1.8 | 83 |
| 14 | Melatonin prevents glutamate-induced oxytosis in the HT22 mouse hippocampal cell line through an antioxidant effect specifically targeting mitochondria. Journal of Neurochemistry, 2007, 100, 736-746. | 2.1 | 70 |
| 15 | Intracellular signaling pathways involved in postâ€mitotic dopaminergic PC12 cell death induced by 6â€hydroxydopamine. Journal of Neurochemistry, 2008, 107, 127-140. | 2.1 | 62 |
| 16 | Several antioxidant pathways are involved in astrocyte protection by melatonin. Journal of Pineal Research, 2002, 33, 204-212. | 3.4 | 59 |
| 17 | Intracellular redox state as determinant for melatonin antiproliferative vs cytotoxic effects in cancer cells. Free Radical Research, 2011, 45, 1333-1341. | 1.5 | 59 |
| 18 | Ultrastructural confirmation of neuronal protection by melatonin against the neurotoxin 6-hydroxydopamine cell damage. Brain Research, 1999, 818, 221-227. | 1.1 | 56 |

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|---|---|---|---|
| 19 | Melatonin sensitizes human malignant glioma cells against TRAIL-induced cell death. Cancer Letters, 2010, 287, 216-223. | 3.2 | 56 |
| 20 | Critical role of glutathione in melatonin enhancement of tumor necrosis factor and ionizing radiationâ€induced apoptosis in prostate cancer cells in vitro. Journal of Pineal Research, 2008, 45, 258-270. | 3.4 | 55 |
| 21 | Melatonin prevents glucocorticoid inhibition of cell proliferation and toxicity in hippocampal cells by reducing glucocorticoid receptor nuclear translocation. Journal of Steroid Biochemistry and Molecular Biology, 2008, 110, 116-124. | 1.2 | 55 |
| 22 | Melatonin Cytotoxicity Is Associated to Warburg Effect Inhibition in Ewing Sarcoma Cells. PLoS ONE, 2015, 10, e0135420. | 1.1 | 55 |
| 23 | 5-Aminolevulinate synthase mRNA levels in the Harderian gland of Syrian hamsters: Correlation with porphyrin concentrations and regulation by androgens and melatonin. Molecular and Cellular Endocrinology, 1991, 80, 177-182. | 1.6 | 52 |
| 24 | Melatonin uptake in prostate cancer cells: intracellular transport versus simple passive diffusion. Journal of Pineal Research, 2008, 45, 247-257. | 3.4 | 46 |
| 25 | Regulation of the expression of death receptors and their ligands by melatonin in haematological cancer cell lines and in leukaemia cells from patients. Journal of Pineal Research, 2011, 50, 345-355. | 3.4 | 44 |
| 26 | Inhibition of cell proliferation: A mechanism likely to mediate the prevention of neuronal cell death by melatonin. Journal of Pineal Research, 1998, 25, 12-18. | 3.4 | 43 |
| 27 | Involvement of autophagy in melatoninâ€induced cytotoxicity in gliomaâ€initiating cells. Journal of Pineal Research, 2014, 57, 308-316. | 3.4 | 43 |
| 28 | Signaling pathways involved in antioxidant control of glioma cell proliferation. Free Radical Biology and Medicine, 2007, 42, 1715-1722. | 1.3 | 39 |
| 29 | Glutamate induces oxidative stress not mediated by glutamate receptors or cystine transporters: protective effect of melatonin and other antioxidants. Journal of Pineal Research, 2001, 31, 356-362. | 3.4 | 36 |
| 30 | Intracellular redox state regulation by parthenolide. Biochemical and Biophysical Research Communications, 2005, 332, 321-325. | 1.0 | 33 |
| 31 | Cooperative action of JNK and AKT/mTOR in 1â€methylâ€4â€phenylpyridiniumâ€induced autophagy of neuronal PC12 cells. Journal of Neuroscience Research, 2012, 90, 1850-1860. | 1.3 | 30 |
| 32 | Porphyrin accumulation in the harderian glands of female Syrian hamster results in mitochondrial damage and cell death. The Anatomical Record, 1994, 239, 349-359. | 2.3 | 29 |
| 33 | Involvement of protein kinase C in melatonin?s oncostatic effect in C6 glioma cells. Journal of Pineal Research, 2007, 43, 239-244. | 3.4 | 29 |
| 34 | Chronic administration of melatonin induces changes in porphyrins and in the histology of male and female hamster Harderian gland: Interrelation with the gonadal status. Journal of Pineal Research, 1991, 11, 42-48. | 3.4 | 26 |
| 35 | Regulation of cancer cell glucose metabolism is determinant for cancer cell fate after melatonin administration. Journal of Cellular Physiology, 2021, 236, 27-40. | 2.0 | 24 |
| 36 | Expression and clinical significance of the Kv3.4 potassium channel subunit in the development and progression of head and neck squamous cell carcinomas. Journal of Pathology, 2010, 221, 402-410. | 2.1 | 23 |

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| --- | --- | --- | --- |
| 37 | Melatonin synthesis in and uptake by mitochondria: implications for diseased cells with dysfunctional mitochondria. Future Medicinal Chemistry, 2021, 13, 335-339. | 1.1 | 23 |
| 38 | Development and androgen regulation of the secretory cell types of the Syrian hamster (Mesocricetus auratus) Harderian gland. Cell and Tissue Research, 1993, 274, 189-197. | 1.5 | 22 |
| 39 | Antioxidant Activity and Neuroprotective Effects of Zolpidem and Several Synthesis Intermediates. Free Radical Research, 2004, 38, 1289-1299. | 1.5 | 22 |
| 40 | Female syrian hamster harderian gland: Development and effects of high environmental temperature and melatonin injections on histology and porphyrin deposits. The Anatomical Record, 1992, 232, 293-300. | 2.3 | 19 |
| 41 | Tryptamine induces cell death with ultrastructural features of autophagy in neurons and glia: Possible relevance for neurodegenerative disorders. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 1026-1030. | 2.0 | 19 |
| 42 | An IR navigation system for pleural PDT. Frontiers in Physics, 2015, 3, . | 1.0 | 18 |
| 43 | Porphyrin Metabolism in the Harderian Glands of Syrian Hamsters: In Vivo Regulation by Testicular Hormones, Lighting Conditions, Pineal Gland, and Pituitary Hormones. Experimental Biology and Medicine, 1992, 200, 25-29. | 1.1 | 16 |
| 44 | Effects of Human Chorionic Gonadotropin and Progesterone Administration on Porphyrin Biosynthesis and Histology of the Harderian Glands in Male and Female Syrian Hamsters1. Biology of Reproduction, 1992, 47, 307-315. | 1.2 | 16 |
| 45 | Inhibition of FLT3 and PIM Kinases by EC-70124 Exerts Potent Activity in Preclinical Models of Acute Myeloid Leukemia. Molecular Cancer Therapeutics, 2018, 17, 614-624. | 1.9 | 15 |
| 46 | Part-time cancers and role of melatonin in determining their metabolic phenotype. Life Sciences, 2021, 278, 119597. | 2.0 | 15 |
| 47 | Attenuated nocturnal rise in pineal and serum melatonin in a genetically cardiomyopathic Syrian hamster with a deficient calcium pump. Journal of Pineal Research, 1991, 11, 156-162. | 3.4 | 14 |
| 48 | Gender-associated differences in the development of 5-aminolevulinate synthase gene expression in the Harderian gland of Syrian hamsters. Molecular and Cellular Endocrinology, 1993, 93, 167-173. | 1.6 | 13 |
| 49 | Age and food restriction alter the porphyrin concentration and mRNA levels for 5-aminolevulinate synthase in rat harderian gland. Life Sciences, 1992, 51, 1891-1897. | 2.0 | 12 |
| 50 | Cytotoxicity and oncostatic activity of the thiazolidinedione derivative CGP 52608 on central nervous system cancer cells. Cancer Letters, 2004, 211, 47-55. | 3.2 | 11 |
| 51 | Androgenic control of porphyrin in the harderian glands of the male syrian hamster is modulated by the photoperiod, which suggests that the sexual differences in porphyrin concentrations in this gland are important functionally. The Anatomical Record, 1994, 240, 52-58. | 2.3 | 10 |
| 52 | Indole and porphyrin content of the syrian hamster harderian glands during the proestrous and estrous phases of the estrous cycle. Journal of Steroid Biochemistry and Molecular Biology, 1991, 38, 101-104. | 1.2 | 9 |
| 53 | Melatonin decreases mRNA for histone h4 in thymus of young rats. Life Sciences, 1998, 63, 1109-1117. | 2.0 | 9 |
| 54 | Distinct roles of N-acetyl and 5-methoxy groups in the antiproliferative and neuroprotective effects of melatonin. Molecular and Cellular Endocrinology, 2016, 434, 238-249. | 1.6 | 8 |

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| --- | --- | --- | --- |
| 55 | Evaluation of results after distal metatarsal osteotomy by minimal invasive surgery for the treatment of metatarsalgia: patient and anatomical pieces study. Journal of Orthopaedic Surgery and Research, 2019, 14, 121. | 0.9 | 7 |
| 56 | A summary of light dose distribution using an IR navigation system for Photofrin-mediated Pleural PDT. Proceedings of SPIE, 2017, 10047, . | 0.8 | 6 |
| 57 | Standard curve for housekeeping and target genes: Specific criteria for selection of loading control in Northern blot analysis. Journal of Biotechnology, 2005, 117, 337-341. | 1.9 | 5 |
| 58 | Can asymmetric postâ€translational modifications regulate the behavior of STAT3 homodimers?. FASEB BioAdvances, 2020, 2, 116-125. | 1.3 | 5 |
| 59 | Role of glucose metabolism in the differential antileukemic effect of melatonin on wildâ€type and FLT3â€ITD mutant cells. Oncology Reports, 2020, 44, 293-302. | 1.2 | 5 |
| 60 | Calcium acts as a central player in melatonin antitumor activity in sarcoma cells. Cellular Oncology (Dordrecht), 2022, 45, 415-428. | 2.1 | 5 |